For Scherous swellings & cutaneous ulcers &c.

℞ Aconit: flavi ℥j Aq: font: ℔ viij

Boil slowly to ℔ ij — The affected part to be frequently washed, and as frequently as time will permit to the part — avoid the steam during the boiling.

Annotations on Chemistry from

Doctr Benj. Rush's Lectures Novr 21st 1783.

Chemistry untill of late was termed an art, but it depending upon principles viz. heat and mixture, may be properly called a Science — Novr 25th 2nd Lecture.

Heat he observes to be possessed of qualities, that produce expansion, fusion, evaporation and ignition: in enumerating the conductors of heat he excludes air, supposing the warmth of air is only produced from the different bodies circulating in it. Transparent bodies produce no heat, but opake bodies, the reverse: Articles of cloathing &c. do not produce heat from the quantities contained in themselves, but only from condensing the particles of heat contained in the body they cover, as for instance a woolen coat is not warm from the heat it contains, or from heat in itself, but from its preserving the heat of the body from evaporating.

Snow acts in a similar manner in regard to keeping the ground warm &c.

Heat he observes is communicative to any body, and two bodies possessing a quantity of heat plus, & minus, when put together soon assumes an equilibrium. This is proved by pouring equal quantities of boiling water & cold together, they both soon instantly possessing equal quantities of heat; upon and is in equilibrio.

Heat has the power of expanding all bodies, and cold the power of contracting all, except water.

26th 3d Lecture

Every substance contains more, or less of heat, but not a certain quantity. Fluids are easier acted upon by heat than other bodies; and alcohol is sooner made to boil, than Water. Cold has the power of contracting all substances, save water, and this is found by many experiments to be increased, when converted into ice — Cisterns, by which water is convey'd under ground, oftentimes are injured, and bursted, if they happen to be placed so near the surface of the earth as for the water they contain, to be converted into ice — fill a bottle with water, and cork or stop it perfectly tight, and permit it to freeze, and be sure, you will find it broke; which is effected by the quantity of water contained being increased in size .. This expansion of water, when becoming ice, ~~[illegible]~~ renders frost usefull in the winter season by breaking the ground, and rendering it suitable for the growth of tender plants —

There is nothing so cold but what it may be made more so — add Salt to Snow, and it's coldness is increased, and is perceptible to the touch.

it is agreed that snow is the most homogeneous substance in nature. Metals powdered weigh much heavier than when in one solid lump. When we speak of heat, we can speak of it positively, as it is a certainty, it originates from the Sun. And negatively of cold, as it is an undoubted fact, that the absence of heat, is productive of it. In constructing of thermometers, it is found that the larger the bulb, the less sensible to heat; and that the bright nesp of it, has an obvious effect of raising the mercury, and is accounted for by a simple experiment of placing any bright peice of hard substance before a fire, that you can easily perceive the reflected heat. boiling heat is 212 Degrees, and freezing 32. — Mercury by experience is found to be best fitted for thermometers, and of late days, chiefly used.

Novr 27th 4th Lecture.

The Phenomenon of Acq. forti producing heat, when mix'd with water, & Cold to the greatest degree when join'd with ice, is not more wonderfull than true. Fluidity occasion'd by the action of heat on

bodies, only has that effect on them, they can return to their primitive state. Diamonds have been fused by particular means - and are of those substances that appear not to be in a fluid state, can be reduced to fluidity by an application of an adequate cold: spirits wine and other are said to be exceptions to this rule. Still air is always the warmest; tho in regard to congealed bodies, an acture air is most powerfull in dissolving them. Cold is increased by evaporation: hoarr frost forming after fun rise, evidently proves this.

Nov. 29th 5th Lecture

Vapour the effect of heat, is elastic like air, and a greater heat is required for its production than fluidity: the greater the mechanical pressure of air on bodies, the more difficult to be made to evaporate. The point of boiling water is 212 degrees and is better just previous to its boiling than at the very time, on account of a greater vaporation taking place. It is said that earth worms admit of evaporation, but there is no body in nature that can resist it.

The evaporation of water is rendered easier by agitation in a vacuum, water is found by experiments to evaporate much faster, as the mechanical pressure of the air is removed from what has been said it appears that evaporation depends on heat, and is productive of cold. between 96 and 100 degrees of Farenheit's thermometer, is the heat of the human body. Many instances might be offered to prove that evaporation is productive of cold — one will be sufficient. In warm countries, where the heat exceeds that of the human body, you may see the inhabitants live, and enjoy a good state of health by being subject to greater evaporations.

Dear Pt.

Evaporation continued.

Some bodies are capable of spontaneous evaporation, such as Camph: & all volatile Oils. Ether & Eth. Liq. will produce the greatest cold, yet are of evaporation.

Ignition

All solid bodies are generally incapable of Ignition. Iron at 635 degrees is inflammable & is the hardest of all metals to ignite. At 32 degrees below 0 in Farenheit's thermometer is the coldest weather we have. 62 is temperate, 65 summer heat and 75 disagreeable.

the heat at common fire is 105°C ~~Quicksilver~~

Inflamation is made the effects of heat almost all inflammable bodies after undergoing inflamation, leave a residuum except brimstone. Air is necessary in expediting, but not in determining inflammation, as it is not, purchased with vapour, or nitrous acid. Fixed air extinguishes flame the conical figure of flame is produced by air — the more Inflamation, the more soot is produced which is inflammable. Charcoal joined with Vit. acid produces phosphorus. Heat is the grand active principle in the universe. It is the source of life & the alone cause of fluidity. Heat at 98°C. produces pocundity in eggs. & the rind of an egg is animal

All bodies that don't evaporate by heat, are volatile.

Mixture considered

It is called homogeneous, where a compleat union takes place, and continues — such as salt and water, not homogeneous, after two bodies being mixt, separate this is termed diffusion, as in the mixture of oil and water, as they will afterwards separate, and is a mechanical mixture.

Sulphuric acid mixt with water produces heat, and chymical solution, cold. This proves that the effect of chymical mixture, is heat, and of chymical solution, cold: for sulph. acid & lime, and cold is produced. Chymical mixture is the perfect union of two bodies forming a tert. mixt. Chymical solution depends on two bodies, one a more powerful solvent, yielding the parts to another in-creases the power of the menstruum; as in water fully saturated dissolved, upon attrition or heat, or adding another solvent such as nitre, and then the water will dissolve more salts.

Decomposition is the separation of two bodies upon the addition of a third, to which either of the other bodies ~~[illegible]~~ has a greater attraction than they have to themselves. ~~[illegible]~~ It is performed in three ways by ~~[illegible]~~, digestion, trituration, and evaporation — Decomposition depends deep on attraction. Solution is quickened by agitation, and exception of air —

Dima formation is the solution of bodies in quicksilver

Decr 3d Decomposition further considered

It is performed by the power of attraction, and can only take place in proportion. Since bodies meet together producing a decomposition is called simple elective attraction.

A compound of two bodies meeting with a compound body, producing two new compounds is termed double elective attraction.

Two bodies being mixed, some increase in weight, some decrease, also at the same time & vice versa.

Impossible all affections the union of two bodies in solution —

Decr 4th

Chemical Apparatus —

The Chemist or intermediate Chemist should be furnished with the apparatus for performing heat — and the tests which are used to obtain these substances or products, the operations of chemistry are performed. 1st the means applicable indeterminate heat: particular tube, chemical pneumatic B. Black. M.D.

Of the mechanical, pharmaceutical, chemical & medical properties of salts, metals & earths.—

& Dep. of life

the forms & species

Stores are different according to the nature of the operations we perform on

In Farron Crucibles, & Capsules are used — not for form, and kind of vessels employed in chemical processes, the means of separation, and regulations peculiar to the Side & Syllabus.

Dep.t of the Objects of Chemistry

Elementary principles are derived from mineral, and organic substances. Water comprehends the distilled, and common bath, saltpeter & borax — The objects of Chemistry are divided into the heads Side & Syllabus.

1. Salts, ~~[illegible]~~ are fusible, soluble, not inflammable & have taste. Many objections are raised to their not being inflammable. All salts have common properties. They are variously subject to fusion, in solubility, they fuse, are, & are

space in solution. Acids in conjunction with salts produce precipitation. Crystals of Saltpetre, air and water. ~~2~~ Solution upon standing depositing a sediment, is called spontaneous ~~alternative~~ Precipitation. Dilution, salts destroys their acrimony —

Nitric acid

Nitric acid is inflammable with iron. Its density, and its peculiar smell, give rise to its being call'd an oil. Heat produces no remarkable change in Nit. acid. In mixture it unites with three acids. Effervescence is produced from its union with alkaline salts this caused by the alkali having a greater attraction to the Nit. acid than the fixed air, which then immediately flies off. It unites readily with absorbents earthy &c. In its union with calcareous earths, selenites are formed, with common clay, ~~[illegible]~~. Sulphur is combustible with acid, inflammable matter with ardent spirits. Sulphur produces sp. V. sulc. It and incorporates with all metals save gold. It is remarked of this mineral acid, that it is never found single. But is produced from an acetous fermentation in the air

Nitre is necessarily joined to Sulphur for extraction, that quantities

of the attractive equivalent to 100 in the proportion. The acid when pure is identical with nitric acid the formula being aqua regia.

Dec 10th —

Nitric Acid —

This is improperly called aqua fortis &c. as mentioned in every chemical writer —

Muriatic Acid —

This is not volatile as the nitric. It readily dissipates its water-hath — Hence its great attraction to inflammables —

Sal Ammoniac Sal Epsom are both earthy salts, and not neutral.

Vegetable Acid —

Is contained, or originally derived from acetic fermentation, It is increased in strength by exposure to cold — It readily unites with Lime & Lead.

Tartar is produced from the lees of wine. The white the purer. It never used in a crude state —

Distilled Acid was first produced from Amber. For it will produce a distilled Acid —

Dr Wm Franklin's Day

Dec 9th Formic Acid —

This Acid is produced from Ants. Here be great concentrated, is a very little acrid on Inflammation, dissolves all calcareous earths, united with lead forms Minium — This acid is found in the little bags of the Ants, it is seldom used medicinally — It was, imposed that the rain following the flight of these insects was according entirely to this acid, which then perhaps — but Dr Prest. ~~was~~ is of a different opinion tho' he is disposed, that it may in part contribute to the production of the Pain —

Continued —

This is only of kind from Plants has a firm attraction to inflammable, and is easily, not without medicine pose it to the common air and it will immediately smoke, and soon after inflame, with severe fumes a decomposition of the body — It consists of the Vol. alkali, and inflammable matter — frequent in from Sal. ammon: — The Dr observed that the predominance of a fixed alkali in the blood

is the proximate cause of the scurvy, which is frequently produced from salt meats, and other putrid secretions — that the cure of the scurvy depended on the removal and correction of the putrid alkali, which was best and most speedily effected by vegetables of such a nature as contained the greatest quantity of citric acid — lemons, limes, oranges, sour krout, &c. He therefore recommends for that purpose.

& also recommends native acids in consumption — Acids act tonically, and, neutralize on the stomach which is an index to the whole nervous system.

Volatile Salts.

The salts formed with the pipal & fixed forms

Dr. Hamilton spoke very highly of the carbonate salts, as possessing many virtues —

Salts of the Mineral kind

These are divided into fixed & volatile — the first of which are generally ~~[illegible]~~ Fossile alkali, which has been the most remarkable, defined in sixteen years particular opinion. It was first found in Egypt

Vegetable Alkali

Fixed is produced much as mineral from the burned vegetable —

Vegetable Alkali is indeed more remarkably by the application of the gas — Unite quicklime with fixed alkali, and the gas immediately leaves the alkali, having a greater attraction to the quicklime

and the remaining alkali is rendered non-caustic — it readily unites with earths, unites ~~with~~ ~~[illegible]~~ ~~[illegible]~~ with oils forms soap — it has a greater action on inorganic bodies, than organic, therefore has been found useful in gems of the non-detersive oil animal substances, unites with all essential oils, and forms the eau de luce. Precipitates copper from acids.

Volat. Alkali

Is more commodious than the fixed or vegetable, and the menstrue of inflammability is very inherent in it — It is produced by putrefaction but by distillation may be procured from the horse animal, horns, or any animal substance calcined or other decomposed sal Ammoniac which is only a mixture of Muriatic acid & Volatile

There is but one homogeneal chalic matter, and the different kinds that present to us it owing to their union with different bodies.

Chalic given in the nearly defective the fluids by simulation, hence results an increased action of the heart, and raising the heat of the body.

Chalic sculpture calcareous compounds, it is thus effected in producing inflammability, or ~~——~~ altering the time so as into acts on the acrid — the an induced to the ~~of the~~ first opinion — —

Respectfully

Compson de Scott.

[illegible]

Lunar Salt

is produced by the Nitric acid and Fixed alkali which exists in the urine, a substance abundantly secreted, but which when it has been in the bladder for some time, becomes highly putrid and ammoniacal —

Hydrated Lime is composed of the Nitric acid, and Vegetable alkali. The acid is principally fixed in necessary table salts in the urine in combination, taking Potassium with the Water the base was of production. It is by distilling the urine with the Nitric acid —

Nitrous compounds resembling the Nitric acid, and the alkali it will combine with metals that the Nitric acid does not combine with unless with the exception, and forms the crystals. Their crystals are regular, albeit — cubes Nitrum

This compound salt is improperly called, as it's figure hexahedral, or cubical resemblance — it is formed by an union of the Nitric acid and fixed alkali — mostly artificial —

2. Nitre

is formed by an Union of the nitrous acid and Vegetable alkali — nothing, when transparent and clear, has attract in the inflammable Inductions resistance in less than red heat — As the basis of this substance — an intimate Union is altered since Nitre is the Chief ingredient in gun Powder — the residue contains a quantity of vital air, as well as the Alkali

The Explosion of gun Powder evidently depends on the vital air therein contained, being set free, when it is affected by the last application of fire to it —

In manufacturing it a mixture is necessary — Charcoal, Sulph & Saltpetre are the principal ingredients —

Dec. 6th. The pearlash considerably deliquesces in a very humid weather — the Sheriff's manner in fertilizing the growth of Vegetables —

[illegible] in preserving meats and gravies a place ed colour etc. It is produced from vegt. or animal putrefaction — The lunitine, found in a native state —

Vegetable Ammonia. is produced from the union of Nitric acid with Vegetable alkali — its production is always artificial.

Vol. Ammonia. is formed by mixing a Mineral acid with the volatile alkali — it may be separated from the common process of obtaining nitre — by adding of Vol. or nit. acid to com. lab. effects a decomposition, leaving behind magnesia, or common earth. — it dissolves readily in cold water, or hot. Thrown into the fire, it deflagrates — when exposed to the common air it deliquesces, owing to the earth it contains — this salt is found all over the world — most plentifully in the sea near the tropics —

I have found in experiment that the bath
-ing in pitch water tended to keep off the
Putrid fever — Gun Powder also has
that tendency — after its explosion, mix-
-ing with the contagious air, corrects the
poisonous Miasmata — gaining (as)
a person more liable to be affected
by contagious diseases — also intemper-
-ance — but keeping up a tension
in the system power a preventative.
Vinegar strongly impregnated with aro-
-matics has been found very service-
-able in preventing contagion —
the Vinegar having the power of correcting the
putrid miasmata, and the aromatics
in keeping up a tension of the system.
The Plague is communicated by contact —
Oil, or oily substances are the best preven-
-tatives —

Dec. 17th Sal. common continued

This salt may be made in four different ways. first, by congelation, exposing the watery mixture to cold. Second, by the ordinary heat of the sun producing evaporation. Third, by evaporation produced by fire, fourthly & partly by deacidifying air acquired by throwing it into the air, and permitting it to fall against limbs or twigs — Whites of eggs, or ox's blood serves to clarify the salt, by putting it into the saline mixture previous to its precipitation — Glacies marina heated red hot, and thrown into fresh water, immediately precipitates the salt —

Vegi. alkali desert. Sal. is more common this is entirely an artificial salt, dissolves readily in water, and is affected by fire, much in the same manner as the common salt.

Sal. ammon. evaporates below the points of fusion — calcareous earth, act powerfully on it — little attraction to Inflammables —

Tart. regenerat. formd by an Union of

Acid. with Vegetable Alkali —

Tart. vitriolat. formd by an Union of Tart. of Vegetable Alk.

with Mineral Alkali

earth decomposed by means of the mineral acids, not so readily by the vegt. acids — dissolves in water, generating much cold — exposed to the air deliquesces. This salt is sometimes found native, but mostly of an artificial production, and cannot be procured from soot. Especially that kind, that is generated from burning of Quang — an union of muriat. acid with Volatile fossil alk. — Art. regenerat.

Suffers a decomposition by fire, as the min. acids, acts feebly on Metals — dissolves in the air, and always an artificial salt.

Sp.t Mind. compound of Acet. & Vol. Alkali

Evaporates with the same heat as water — found useful in discovering all Fumoun always artificial production —

Sal. vipel. decomposes by an intense heat — its action on Metals the trifling — Sal. Polych. will not fuse, but changes into coal — artificial Borax

Borax Dont decompose by heat — but promotes very much the fusion

of Metals — it dissolves in sp. Wine, and in 20 times its weight of water — It is prescribed from fatty substances mixt with fine clay suffered to remain some years — It may be made by an Uni on of sol. fed. with fixed alkali — the sol. fed. is a Salt sui generis —

All the neutral salts act on the nervous system, and sedatively, independent of the cold, they may generate their effects are produced without Irritation — their effect action is on the Arterial system — good in all fevers, except those induced, or kept up by languor, or atonic — therefore injurious in Hyst. or hypoch. complaints — Nitre has been found an excellent detergent, and useful in Gargles, or mouth waters — Glaub. salts in small doses act as an antiemetic.

Epsom Salts in very small doses prove antiemetic in Dyspepsia attended with Vomiting — Common Salt tends to stop a purging — mixd with native acids beneficial in scrofulas — Sol. Tart Usefull in Obstruction of the Viscera.

Spt. Minder. ought to be used very sparing, otherwise it has little Virtues, but if given in large doses, and repeated every hour acts as a Diaph. & Diuretic — Borax only Usefull in Asthma —

Decr 8th C. Earths —

They are not soluble, nor inflammable. They are not capable of evaporation, but are capable of vitrification. If soluble it is from the Salts they contain. The present form of the earth, and the different strata, or mixtures of earths have been imputed to several causes. Some have attributed their appearances to earthquakes,

Either to a stroke from the tail of a comet.
The Deluge however appears to account for the phenomenon most plausibly.
The irregularities of land & water prove a mixture of stone & Clay, the latter being subject to the influence of rains. From the Cartesian philosophical hypothesis, we are assured that the world, stood perpendicularly on its axis before the Deluge. This producing a constant serenity of weather, there were no Convulsions whatever in nature. Mankind enjoyed long life, were strangers to disease — the different substances of the earth were not intermixed, & every thing displayed its own Samaness.

This profusion of blessings averting every melancholly idea, inclined men to wickedness & estranged their hearts from the great author of their existence. Their conduct from this, grew so repugnant to his will, that he thought proper to distress them with a signal scene of afflictions. In perfecting this, nothing more was necessary

than inclined; the upper axis of the world nearly horizontal, and towards the north pole. This change gave rise to all the phenomena of nature, & vicissitudes of seasons — from a serene sky, the heavens became discoloured with storms &c.
The Deluge thence came on, & the general shock produced a mixture of the component parts of the earth. Hence the origin of winds, storms, rains, earthquakes &c. &c. which cause such frequent & horrid scenes of terror & destruction.
The same quantity of metals, &c. exist now as ever, only that they have experienced a mixture & union — Their increasing in size arise from an accretion, and congestion of fresh matter. Absorbent earths vary in their texture. They effervesce with acids, other earths seem to effervesce from the expulsion of fixed air by soaking them in water and fixed from the loose air — Lime exposed to fire becomes acid, & loses a third of its weight & united with vit. acid forms Selenites.

Dr. Pt. Lime

readily mixes with fixt acid, forming about one
fourth of its weight feeble attraction to the
nitrous, or muriatic acids, and yields to the sep.
al. ammon. has a powerful action on lime.
the lime being attracted by the muriatic acid form
-ing sal. am. sep. leaves the Potash alkali, which
makes with fixed air being set loose. inflam.
mables has no action on lime. it promotes the
union of Metals — it readily mixes with Sul.
-phur. has a great attraction to water; it pos.
-sesses an alkaline qualities. unites readily with
oils — the lime deprived of its fixed air by heat is
called quick lime, and quick lime when wet with
water, is term slack'd lime, the latter
by being exposed to air recovers its hardness
and is in some degree changed to its former
state: Lime Water loses its efficacy by
exposure to air, or by boiling

2

give acts powerfully on the animal, inclosures, by attracting humidity, which is essential to their existence — Lime serves to absorb oil or blood, serve to clarify liquor. Lime and pipe clays are very useful in the purifying and refining of liquor —

Lime mixed with clay forms marle, which has been so highly recommended all thro England for the best manure — Sandy land when manured by lime requires a mixture of clay, but clayey land must be limed —

Calcareous earths are of the following — lime, chalk, marle, marble, spar, Lapis Petrolini, Pectoline, calcined bones, human calculus, Sepia, magnesia alb. Gathers of vegetables —

Chalk is found abundantly in mountains, and is frequently impregnated with Sp. Sam. Mallec.

Marle is a mixture of Clay and ~~quick~~ lime-
ground & sometimes marle gets under the
surface of the earth.
Marble is found in States near the super-
-ficies of the earth, when powdered readily
mixes with Vit. acid, and undergoes larger quan-
-tities of air than any other substances —
When fixt air is wanted for medicinal
purposes, it is best obtained in this manner,
Marble is found to contain non —
Marble is a variouscolour — ing, and
figured — that which is whitest most va-
-luable —
par is a species of Calcareous
earth — effervesces with acids — what goes under
the name of Gypseous will not —
The Spar spheare in Chrystals of various
figures — The Gypseous Spar is transparent.
Talcki is formed by water washing and running
over Calcareous earth spheaurd in form like Scales —

Dr. Ogilvie. Osseline is formed from Vegetable Petrefaction — such as a piece of Cedar laid in Water after a length of time loses its fibrous texture, and becomes perfectly petrified —

Zoolite, is produced from animal Petrefaction.

Calcined Bones — formed by exposing any bone to the fire ——

Human Calculus, is found in the bladder — its nucleus, and without which it never is formed, arises from too great a secretion of the coagulable lymph, or from a morbid state of the kidneys — A peculiar calculous diathesis much exists the formation of Calculi. The coagulable lymph perfectly seperated from the red globule, and serum is now analogous to the white of an egg, which by standing several months as well as the coagulable lymph, will become petrified — This circumstance of the petrefaction of coagulable lymph evidences that the nucleus of calculous concretions does originate from it. Gallstones found in the gizzard of fowls, produced from a too great effusion

Opium and its preparations, the effusion of opium in the pleuritic, induces inflammation.

The effusion of opium and vegetable bitters forms sulphuretted. The effusion of opium, vegetable gentle and red. Stillates are a precipitation — Magnesia.

Sprung from an Union of Epsom salts & Sal tart. in solution, deposition a sediment which is the genuine Mag. alb. It is good in acidities, and the gall in constipation —

Fontabie ashes is formed by a process of Vegetables to the exclusion of lime, the contained salts of magnesia and common salt.

Absorbents, such as crabs claws &c. are good in acidities given in large doses sometimes beneficial in diarrhoea —

Nitrum not being soluble in water, when used must be finely powdered, otherwise no good effects will be produced from its use.

Gypseous earths is a composition of sulphuric acid and calcareous earths — It doth effervesce with acids when made forth with water, composes the bitter

Paris. It is used for Busts &c —

It is a natural production found in the quarries, resembling sugar, called arabastes — also when pure composed of fibres that term called glacies Maria. It is also found in strata, or seates in the veins of Mountains, transparent, and white, and then go under the name of Spars.

When finely powdered and sieved over land makes one of the best manures and particularly adopted for the production of grass.

Silicious gent. clays —

These are not correctable into Paste by water and need burgine and seed from all the inflammable matters becoming purified — Pipe clays unite with the volcanic Alum and rather refuse decomposition by burgine but cannot decompose in fixed alkali — Alum fluids with nine above pt. of Petre — all inflammables decompose Alum — see time from it use all in purgeing Water excepting in pipe time — There is another method defining with the putting clay into act. but its action is mechanical.

of iron, some natural, called Pyrites and
more by pure by Solution permitting its crys-
tallize — Coche. Alum is a strong astringents
from the other, which the iron contains, it is
sometimes mixed with inflammable Fire. Sulphur
compose it — Stars, the fire mixes with it, and
also joined with the earth formed, has a
great attraction to water — It is sedom com-
bined with saline matter, except sec. acid.
The armenian bole contains iron, and is very
fine astringent. Its composition is clay &
iron. Lapis armenus, a bole from the Isle
called Lemnos — Spum, attcan be formed of its,
it contains earth of magnesia — The action of fire
renders it hard. — Lapis lyncurius contains iron
and the earth of magnesia.

Vir. or Flinty earths Devise their name
from their resemblance to glass, crystalised.

those that are white or a milky colour are the purest. Fire has no action on them; unless being chilled after heat in water are then they become capable of being fused — and fused by the addition of litharge is the ~~alone~~ best basis for making Glass, the extensive utility of which is obvious to all our readers — Glass is formed from sand and alkali. White glass is made from adding the calx of lead — The calx of zinc makes the white stocks and wind-ing gentlin wine glasses — blue glass has adding cobalt — tinged by the addition of Iron, dark green by mixing the calx of Copper. Florentine is made out of gems & fine marble — Flint ware with pipe clay forms Porcelain — Common earth & inflammable matter united with the Nitric acid form the Slate stone. Agate is found large, and frequently diversified with various representations & figures, happening by Lusus naturæ — Dr. Tissot observed that the marks frequently seen on children

are not produced from the Imagination or Affections of the mind, but attributed to the same cause producing the variety in the shape of our Inner Natures.

Class 2d Earths

belongs to the interpenetrants, not so hard as the gems — Lapis Lazuli or Lorchine contains iron — Lime is found in the eighth degree — Spar and gard by the action of fire and are very heavy owing to the Metal they contain — Crystals are integrable in an intense heat and are exhaustible — being finely polished — Diamonds are a combination of many Earths equivalent to precious stones having much more value. All these precious Stones, various colours are owing to being combined with different metals. The quartz or Crystals contain water more or less, ~~which~~ and yeilds to the action of fire —

Fifth Penetration

Under this species are classed the opposers earths — which resist the action of and fire

that we are capable of applying to them, and from hence attaind their name of Fossils, from a non, Pur ignis — petrifaction of a new kind, produces no visible change on them — Mica or glimmer is lost of a greasy feel — Talk carries somewhat soft and of a greasy feel — unsoldable into Chunder but subsists between your fingers — it is found plentifully in Syria —

Amyanthus or asbestus has something the appearance of cotton and is called in the countries the cotton stone. it is also found in the Mediterranean — it is capable of being manufactured into linen like cloth or paper — the fire has no effect upon the fibres, than changing its whiteness — concluded with electricity that the general conflagration at the last day will totally annihilate every thing but perhaps restore every thing to their primitive state

* This acid substance which is the basis — and that it is very distinct from Flate.

and remarks relative to the result —

Different inflammable bodies

are just as far the approach to give with emit

flame, the charcoal, water excepted — Principle

of inflammability cannot be separated from other

bodies without destroying either or rather formidable bestow

ing place. Flame is vapour in a state of inflam-

mation and its concealed fire it seems to exist

action, or water, it is part and the single clari-

fied air — Fire is produced by a free action of

the fire in the form of inflammable matter

of the other substances — and the mere flame

emitted by fire. The people the product of

of petroleum fire receive —

Different inflammables

produces compared from Principle of inflam-

-mables given to matter transmit a flame-

ness be it — the more be produced from flame

the thermometer also on it. The fire air

very great action in the pitchouted produces

remarkable change ~~after~~ or impunited

"the effervescence most attractive to the eye
is the principle of inflammability is mixed with
metals. This deflagrating acts in them as a
separation of inflammable is procured made.
Sulphurous metals with sufficient a decomposition
to take place & it will unite with lime.
Metallic oxides in this form the appearance
of glass. not soluble in water and have neither
an animal substances. all gas matter
will form Crystals — and the steam of sulphur
will in lime — Sulphurous mass is made out
of the bi-carbonate of lime, which is only a composi-
tion of lime acid, and calcareous earth — metals
in order to a sudden separation of the principle
of inflammability from some other substances
are the exhibitions of metals exhibited by the
lightning bugs — and the sparkling of the
sea to a number of small metallic glass

Carpenters and metals from them.

Spt. Brimstone is a compound body of inexplicable inflammability & lib. acid — It is distinguished by the electric spark and the sap. on and in the Nitric acid — calcareous earths calcined in the nitric acid — when fusible it combines a red metal of form, & sulph. unites with all metals except iron, platina & tin — Spt. of wine in the ordinary way will not combine with it.

Nitrous is found in all parts of the world, most plentifully in Asia, which subjects that country to frequent earthquakes &c.

Native sulph. is pale, crystalized, and to be found in Sicily — Empire sulphur is only sulph. mixt with metals & hence has been called pyrites — and when same form white, with Iron, green, with Copper, blue, with clay Alum. The Brine of sulph. never separates from sulph. unless affected by heat.

Pundir is a Decay'd Pyrites — Studies of Man.
ca, its ~~pow~~ respends on the contained sulphur, its
heat a composition of Pyrites & copper — Sulph.
it frequently pri from Metals — and it may
be observed that the more arsenic they contain
the less sulphur, more Iron, more sulph. more
copper, less sulph. ——

End of 25th Lecture.

Lect 26th Charcoal contains the O. Inf.
in a very great degree: it is composed of C. & O. of
gind air — when exposd to the action of fire it
is reduced much lighter — but the action of fire
on the O. Inf. increases its weight. Charcoal or
Tallow is use full in restoring Calcd Metals to
its primitive state — its efficacy depending on
communicating the Oxin. Inf. to the calcd metal
it indeed turning less exposd to the action
of fire. Charcoal is insoluble in Water, and
unchangeable in the air ——

Ardent Spirits are highly rectified spirits become
very inflammable — Sweet as Alcohol Spt. Wine
its inflammability depends on the contained oil — the
ardent spirit is composed of oil, acetic acid, and Water —

Eth. Ether is formed by uniting 2
parts of Spt. Wine to 1 of Sulphuric acid, and distilling them
lightly, and separate from the Spt. of Wine — it will
boil in heat below 0 in Farenheit's Thermometer.
It is very inflammable, more so than Spt. Wine
itself, owing to the Sulphuric acid decomposing its acetic
part matter. Many apparent curious tricks may be ex-
hibited with the Ethereal spirit — take a
piece of leaf sugar, and drop on it as much
Ether as it will absorb and then put it into a
bottle partly filled with warm water, it immedi-
ately sinks down to the bottom, and begins to
dissolve, and the Ether to rise to the top,
and fly off, at which time put a candle
to the escaping Ether, & it will immediately

in flame, and continue to blaze till all the
Ether is extricated from the Jigar —
Sp. Ether of the water of mild, pondr on vie,
is no more than the escape of a fixed oil,
called naphtha being set loose by liberating
the Mucid &c. at the bottom of the pond.
Ether is difficult to confine in mixing it with
other substances, owing to its great volatility.
Sp. Wine mixed with the Nitr acid causes a great
ebullition, yielding forth an agreeable fra-
-grancy, common an Nitr Ether — there is
reason in the hidden Union of these two,
therefore caution should be observed to avoid it
gradation — the best mode is to put some
sp. Nitre in a flask, then some water after
wards add the sp. of wine, in this manner
the Union will take place and the great ebul
lition avoided. The Principle of pyrism.

is the source of colour — instances in certain of Spts. of wine to pale sht. of Nitre, changing it red — which is only owing to the increased Quan. of Inflammability — The utility of Spt. Vin. in cleaning of Lace, Brocades &c. is owing to the restoring the E. O. to them which they had lost by being exposed to air &c. Nitrous acid distilled with Spt. Vin. forms Spt. N. dulc. — Muriatic acid mixed, and distilled with Sht. Vin. forms an muriat. Æther — Spt. of Wine may be strengthened, and purified by digesting a caustic fixed alkali — in this manner the alcohol is made. Ale. V. & Ale beer made with Spt. Wine, christalizes immediately, by being deprived of its water. in forming of a hermaphrodite —

1

By mixing spt. sal. am. with spt. Vin sal-
-ably, a solid mass will be formed owing
to the great attraction of the spt. Vin. to the
watery particles and afterwards become in-
-tangled in the mass of Salt — this
solidity is of but short duration —
Spt. Vin. has great action on all the
neutral salts — no action on earthy bo-
-dies except lime which must be previ-
-ously combined with sal. ammon. —
It separates pot. from Aq. regia —
and is useful in seperating tin from
platina having a very great attraction
to that metal — It dissolves Phosphorus
Spt. Vin. may be procured from all spi-
-rits —

(3) Pepsin Pills —

The component parts of these are water, pepsin with
earth and some foreign matters — water is their base
the they contain a large proportion of the pepsin which

a series comprehend by its being mineralized or phosphated
with the rest. This we should be more normal and endure
less. The acrimonious one known given them just
taste, and quantity. In distillation the vegetable
part first rises, afterwards water and the residue
behind a carbonaceous residuum. The flame of
the sorrel, or fragrant anti is accompanied by the
volatile water. The acid unites readily with
them darkening their colour, yield certain them bi-
-luminous pitchy acid mixes with them also
the muriatic. The vegetable acid has little or
no effect on them. These oils are deficient unless
with alkaline salts, their best effected by these
standing together several months. These resist map
with watery bodies: unite with spt. ven. generally some
acid. They dissolve resinous. These Unions with
water is expedited by agitation — This mate-
rial is obtained from vegetables — The oil is normal
mixture the latter smell. All vegetables have
two kind of vessels, one for their nourishment
the other for the reception of their oil —

Indeed equally in some Plants that they
are their essence, hence are called essential oils
some are solid some liquid some red, and some
extreme white Color. The mode of separating
from Plants, was as follows macerate the
vegetables in water some time previous to their being
put into a still — the result of the process is some
like that of essential oil, pretty.
Among the aromatics, Camphor is ranked
it is brought thus in a solid or white body resembling
an acrid Paste, and readily evaporates before
fusion — when exposed to the fire in an open
vessel the whole will evaporate and fly off
with leaving any residuum, and on fire, differs
from all other aromatics. if exposed to a sudden
intense heat, it will inflame.
Vinegar unites with Camphor forming a delicious
mass, Muriatic Ether has no effect on it. it
is soluble in oils, insoluble in water, the strong
and proper menstruum is spirit of wine.

Water used to effect fungi. Decomposition en-
sues — it has no action on metals. —
Prevents the internal use of Camphor. It
respect a Camphor to be dissolved with a little
oil. — over mucilage hartshorn, electuar —
it is a very powerful antiseptic — shifts
sprinkled with dry Camphor prevent the
ravages of the moth. — Camphor is obtained
from a large tree a native of the island
in Japan & Sumatra — it is metime found
pure on the leaves of the tree, but is most plenti-
fully obtained by distilling the pieces of the tree.
— one is commonly added to the indesp about
part to 3, or 4 of Lump. in experiment of it.
its peculiar form entirely depends on the
vessels in which it is made.

Benzoin is seldom employed to
the action of fire fends with an agreeable
smell, also is sublimed — it is soluble in
in water, owing to the contained saline
Particles. —

In a solution of Benzoin with Sp.t Vin. ber ad. Dine water a white sediment is formed, which is the best of Cosmetics.

Resins and Balsams —

Their difference is only in consistence. They contain earth, water acetous acid & some mucilage — Their solubility is dependent on the small contained acid. Soluble in mineral acids forming different varnishes. Sp. Gravity makes the best — Mucilage expedites their solution in water — The the best Menstruum is Sp.t V. & Water equal parts. Sp.t V. dissolves resins but not Gums — the best menstruum for Sp. is water & Sp. V. Gum. Gracia is an exception, dissolves best in Sp. Sal. am. They are obtained from trees ——

Unctuous oils, are perfectly bland, float on the top of water — heat has not great action on them — In the distillation of oil, if you push the heat too much, it becomes empyreumatic.

The Muriatic acid has a slight attraction to them, owing to the Prin. I. being entangled with the other comp. parts. tho' strong attraction to alkaline salts — if when united with these salts form Sea-salt — if they are tardy in their union, by adding lime you immediately remove that inconvenience, for the lime, makes the salts more caustic by robbing them of their fixed air — effecting an union of the oil & alkaline salt. Sal. Tart. is useful in hardening it, by absorbing and attracting all the watery particles, which kept up the fluidity — the appearance of Colour observed in the hard soap, is owing to an addition of the juice of different Plants — Mucilaginous oil mixed with Sulph. forms Balsam. Sulph. Oil acts as a great antipuctrescent in the keeping of eggs — Oil becoming rancid, is entirely owing to the contained mucilage undergoing fermentation — by frequently washing them with water, you may hurry, and destroy their rancidity.

3rd Water or oil hastens fermentation & quick-ness rancidity — The best way of manufacturing butter is never to wash it, if you intend to keep it any time, for there is so great a attraction between the mucilage in the butter & water, that a great deal of it will be detained — which greatly will tend to bring on rancidity — The common way to keep it sweet, is never to attract ing the water & mucilage therefrom, preventing fermentation —

Coal Tar & Bitumens —

Tar are inflammable mineral bodies and are either fluid, or solid — Naptha or liquid tar, is a light volatile substance composed chiefly of the C. & H. and only ignites from flame — Gunpowder is just the reverse, taking fire only from sparks. Miners to prevent the naptha from igniting, while they are working in the bowels of the earth — make use of an iron wheel, striking against

some thirty bodies, which when smitten, makes sufficient to afford adequate light.

Petroleum is an inflammable liquid, burns with a gentle flame and floats readily on the surface of water, where it is sold as Barbadoes Tar. Mountain Tar much resembles Petroleum, which is found most abundantly in Barbadoes, hence obtaining the appellation of Barbadoes Tar — Both are differ in the quantities — the C. G. they contain — Pet is the most pure, clear in a yellow bituminous, and substance, readily attracts light bodies, such as straws, feathers &c. it is similar to naphtha, in igniting only from flame, when burned to form leaves behind a carbonaceous matter. it is supposed to be an acid. Ambergris, as well as amber produce much soot on burning — they leave composed of water oil & salt — If you mix the oil of amber with the nitrous acid, there is produced

is a compound finding forth a smell similar to that of musk — Linnaeus represented it as forming a beautiful varnish — this oil is found on the Caracoast, thought to be produced from it — and perhaps have little effect on the heat of mixture the same effect on it, as amber which has the same effect — Petroleum is the basis of amber — this finishes the principles of inflammable — and the following is a short account of the diseases time of them as medicine.

Sulphur, is insoluble in water or any of the juices of the stomach therefore does not act by entering the lacteals, it therefore acts as a laxative, and determines to the superficies. therefore in rheumatic affections of the skin, and effectually in the mouth arising from the use of mercury — it is thought to be a specific in this case —

acts in the same manner on the mercury in the system, as we know it will out the body, destroying all the peculiar effects belonging to mercury. It is the best remedy for the itch — also good in complaints of the breast where no inflammatory symptoms attend, and in the last stage of these complaints — Indent pains — Often good in nervous headaches &c. Far superior in many instances — Silicium is one of the prompest antiphlogistics yet in lock-jaws.

Metals are perfect shake bodies &c. — non electrics — perfect conductors. Electricity — They are all capable of action & cure and the malleability & ductility of them entirely depend on the [illegible] which they contain — when they are deprived of it, they are converted into a calx and is undoubtedly

Metals exposed to the action of fire, both parts with the P.P. combine — one [redacted] are heavier than other, owing to the quantity the combined P.P. — Note that the density of the metals are increased — and as their Principle alone from weight being increased, has been defined the P.P. depends. [redacted] the P.P. in metals cast against the bottom of the gives in the opinion — one when exposed to the action of fire emits light — The effervescence of metals, caused in uniting with them an acid, is owing to the circulation of gas air which is composed of the Principle of inflammability & fixed air — Metals are real oxides — In accounting for metals becoming heavier by the calcination of their P.P. it must be observed as metals take their weight from the earth, consequently are subject to the force of gravity, so the principle of inflammability, is equally subservient to its attraction.

Dear Sir

Metals are conductors of electricity more or less in proportion to the quantities contained C. G. —

Galvanic fluid promotes the fusion of metals — Boracic acid expedites the fusion of metals, but tendency to purify them from their earthy matter, it having a strong attraction to earthy bodies — hence

recommends the metallic oxides to anode — Metals in their pure state would unite with Gases, or earth, but when in a fluid state generally with miscible rock stones, as well as earthy substances

P. P. aromatic or mucilaginous solution or the

P. P. reduce salts of metals by restoring them

their orth P. P. — most of the metals are fusible in water when found with acids — the fusion of metals is entirely owing to a loss of their oxygen

used by an acid constantly pervading the atmosphere — All metals are found, if

recovered from the bowels of the earth.

Quicksilver presents itself in globules, imbedded with
in the earth, sometimes in some earthy mat-
ter.

Cinnabar is an inflammable body
found sometimes in large, and sometimes in small
white pieces, bearing some resemblance to
common salt. It fuses in red heat, yielding fine
a smell like onions garlic. It is somewhat
volatile, and is entirely volatilized — if united with fixe
d air, it forms a salt that has no
attraction to the common air. Differing in
that particular, from all other neutral salts.
It has no relation to earthy substances in a nat-
ural state. It has no action on common air.

Quicksilver, however, the grandson of all the metals,
and readily unites with them — It has a very
strong attraction to the P. G. and when united,
recombined with lead, renders it almost an
irresistable cause — When it is combined with
any of the metals, they become much harder

and more brittle, also changing from white —
Arsenic joined with copper forms what is
termed white metal, formerly in use,
making Bullets, Bullets &c. It also poi-
-sons the passion of Tame Pewter —
It is never found in a native state,
generally joined with other foreign substances,
in the form of other Ores — the best mode of
recovering, & advance, or extract the constitu-
-tions of one body, is by placing it between
two copper Plates, and exposing them to the acti-
-on of fire, and if there is any — it will change
the Plates of a whitish colour.
Arsenic as a medicine for internal use,
is doubtfull, therefore not recommended.
A fusion of metals is the
separating them from one another, from
and all the mineral acids & sulphur
in three ways 1st by mechanical force. 2nd
by the action of fire, and 3rd by fire & mixture.

All the acids act on metals, and thus are sometimes used for staining ores. — Alkaline salts and arsenic form what is called orpiment. — The Alkalies are most used to separate and fuse metals. —

Quick lime, fixed P.P. are useful in separating earthy earths. — In fusing of metals, they are subject more, or less to be calcined, the reason which the air must be excluded, with more, and better calcination. —

Black flux formed by 2 parts Nitre, 1 part P.P. is much preferable to the white flux composed of equal parts of Nitre & Tartar.

Lecture 37th. The art of staining metals continued — Metals should be kept in the purest manner as expedient to the separation of them. —

In fusing it more common to add a vitreous flux from necessity — The fusion avoids as much greater attraction to the alkali than to lead, and in question to silver tends much to assist it, by having a greater attraction to the earth &c.

sometimes one metal is added to another to separate them from their ores — Water is sometimes used to effect the separating of ores by heating the Mass red hot, and throwing water repeatedly on it. some metals are found in a native state, and consequently are of the above described methods of separating —

Metals are divided into imperfect and perfect. perfect are again divided into semi-metals & perfect particular descriptions, Order &c Vide Syllabus. —

Mercury and the semi-metals differ from any other the semi-metals in its being in its being reduced towards the end of more volatile — the metal has been more combined when on account of the compound nature of its contain or other the metals and the metals are gold & Platina — that resource nothing or Mercury it boils & evaporates — but the semi-metals when changed into its pure state —

If it is added in a heat to boiling water, it
dissolves, & is converted into a Calx — The Nitric acid
and to mercury and expose it a gentle heat
give it satisfactorily, and let the additional water
in its dissolved state is formed, & exp. min.
The nitric acid has a greater attraction to mercury
than the Vitr. acid — and on their union, the
[illegible] which is necessarily owing to the attraction
of the N.A. for the nitric acid. Exp. first dissolves
twenty pts of mercury — The muriatic acid
[illegible] and made out of the following strengths;
16 ½ Vitr. acid. ⅓6 Vitr. acid. ⅓4 merc. ⅓16 of mercury.
waters — The muriatic acid having so feeble
attraction to the N.A. that, you must either
reduce mercury to a calx, or previously add the Vitr.
a nitr. acid before it will unite with it. — Some of the Alkalies will
decompose the deflagrating precipitations of
mercury made with a mix of the Acids —
Corrosive sub. is a preparation of Merc. & the M. acid

Merc. Dulcis is formed out of the Cor. Sub. by
sublimation, or ~~triturating~~ with some Merc. & Sal.
Sublimation them. Calomel is produced by Cor.
Sub. & mercury undergoing several sublimations —
By uniting Merc. & Sulph. by trituration, is produced
Ethiops mineral. Unite them by heat, and
after them undergo a sublimation —
you form Cin. Sact. It unites with all
metals except Iron, Bismuth, & ~~Platina~~ Reg. Art. — It softens
lead, & so gold — It is insoluble in water in
a simple state. But when united with Sulph.
acid, will dissolve — It is found in Peru,
Mexico, Hungary &c. and scarcely ever found
with other metals — Sometimes it is found
almost pure; only requiring training thro'
a sieve & leather. It is most commonly found united
with Sulph. and is seldom separated from it
by iron filings or lead — Mercury as a medi-
cine increases the circulation, and has some
what particular effects on the nerves.

and salivary glands — Turpentine commonly used in preparing the Ung.t prove. is very injurious, possessing an irritable quality — best to make it with simple sweet oil or hog's lard. The acid of the stomach can have no action on the mercury unless reduced to a calx by some means. This can be effected by trituration — Hazlett's Pills are formed by the sol. acid and mercury triturated — for the different preparations of it v. Syllabus.

Ointment of Ph. Ed.

Ointments are imitated quite as much worked upon as mercury — it is a mixture of a regular plates gill & needle like crystals, which deflagrate upon the application of fire with a white vapor — the acid being highly concentrated retains much water in it. This acid, and the oxy oxide, owing to the acid combination, are very abundant smell, owing to the acid, supposed D.r Ayre. Chemistry. If you add the nit. acid to the above bro. in it.

that are changed blue — The mineral acid retains
the gas & also ~~[illegible]~~ does on Mercury the specific
distinctive characteristic & proper property of
the metal, viz. the fluid, or metallic, scribble in
our thermometers exactly analogous.

Corrosive Sublimate mixed with Cochineal & Sal amt. and
distilled send into the receiver fumes that will condense
in the neck of the receiver terminating the bottle
quite white & very acute & potent. Cath. &c
emetic. when exposed to the air becomes fluid.

It may be decomposed by water, precipitates
at the bottom, and forms mere. Hydr. ~~[illegible]~~ —
All the Vol. acids act on it in a metallic state
& reduced to a salt and combined with the
Vol. acid forms Cath. emet. — Fixed mostly on
all the metals in a Simple state it is insoluble
in water — Hydrargyrum found pure in a native
state mostly found mineralized, sometimes combined
with arsenic, & Sulphur —

the earth separates from the sulph.
acid, the saline, leaving the ant.
insoluble — which is condensed from the lein
contained to the action of fire & air that
merely the ter. ant. c.q. ref. is necessarily
to separate ant. from its one. also
galaline salts, but these are not one
and. the chlorates were ref. ant and
nitre deflagrated from Mur. Tuth.
ant. fire is greatly employed in refining
ref. ant from its one. Deflagrate
equal parts of nitre and ref. ant. and
you make the process. Ant. Dr. Campbell
Powder
is made from nitre and ref. ant deflag-
-rated, but the proportion of the two
is not known — Lime water is the only
saline substance that acts on ant. All
the metals except gold act on the ref of
ant. which is injurious in water —

Tungsten and Zinc.

Is a black metal here, and when in fusing a good deal of P. G. is detached upon the Sulphur, and comes when condensed from the Sulph. Since, it melts below red heat — The Flowers of Zinc contain the P. G., which is not inflammable in a simple state — The Sulph. acid dissolved by water and heat dissolves Zinc, forming Sulph. acid. The Sulph. acid, and Zinc exposed to flame combine. Nitr. acid has a small action on it. Alkalies reaction on it. Zinc united with Clays forms Lapis Calaminis. It has no attraction to Sulph. which is sometimes used to separate Zinc from other metals — Zinc, Lead forms Pewter, Zinc & Copper form Brass —

It is insoluble in Water. It mixes with all metals save Cobalt & Nickel — It is found in all europe, and most frequently combined with Clays in the form of Lapis Cal. —

Lapis Calim. is recommended in old chronic Diarrhœas — Flor. Zinc. good in the Chlorosis of Hysterics, and acts best in small doses — but may be increased gradually — but if administered at first in large doses act as a stimulant, and prevents the desired astringent effects — Common dose to begin with ½ grs. — It has been found useful in Hyst. mania. Lap. Calim. made into an ointment with fresh butter, is an exceeding good Opthalmic. in cases arising from want of Moisture —

Bismuth is a white sparkling substance — exposed to the action of bile turns to a Calc. contained fat, tin Vitrifies — The Nitric acid if its best menstruum — The Sul. acid corrodes it — the Vel. has slow and feeble action on it. Solution of it in Nit acid exposed to the fine finds faith throw Vapours, ~~also~~ its may be

decomposed by Alk. Lyt. & in water
forming a Cosmetic, tho not so efficacious
as Muriatic Acid unless act on it, unless
~~[illegible]~~ in the form of
Mere. Corros. Sub. — Bismuth unites
with Sulph. resembling the ore of Antim.
It united with metals increases their
fusibility. It is insoluble in Water —
It is found in England, Saxony &c —

Cobalt is a white greyish
and brittle substance — exposed to fire
changes to black, all the acids act
on it. — It unites with Lucates form
Cathphyre; unites with all the Me-
tals except Mercury and Bismuth
It is insoluble in Water — It is found
combined with almost all the Metals.

Ink:
Is made with vitriol form an Ink
Ink which ~~[illegible]~~ made with on paper will appear time after

[illegible] lead & a metal dense & heavy

[illegible] — Nickel is a white [illegible]

[illegible] & [illegible] to the [illegible] & [illegible]

[illegible] — It is [illegible]

in all the mineral acids, [illegible] than [illegible].

It attracts [illegible] readily, and [illegible]

[illegible] the metals are [illegible] Nickel

[illegible] from the [illegible] [illegible].

Simple Metals.—

1st Lead is a pale red white in the polished

state, very malleable and ductile. Its specific

gravity is to that of water as 11 to 1 — It easily

melts, & forms with the oxygen of the atmosphere

a gray, [illegible] oxide, [illegible] that [illegible] [illegible]

[illegible] and [illegible] it is the oxide of lead

[illegible] [illegible] [illegible] known in [illegible] mineralogy as [illegible].

2d Tin. Does not [illegible] any [illegible] influence, but

Nitric acid acts on it. The [illegible] acid unites

with it when in fusion, and forms Plumb. Cornuum

[illegible] [illegible] flowers on boiling a pint [illegible]

fed in a chain, a piece of iron or tin, washed by the positive process in the, or white acid — little does power upon the perpendicular, labrade n. acids. — on it, and with the electricity makes the white flash that is so much in vogue — Quicksilver resembles diamonds, owe their lustre to the trade wind. General of the Ammoniac or Sal Ammoniac is one of the constituents of the Polypus. Also to be helpful. And if the sulphur is melted, gives the violently — solution of acid. Alcohol in water insoluble with, and boiled to the vapour of turpentine. Salph. changes directly black, and becomes opaque — Acid of Spermaceti, will change the colour in like manner — Lead is insoluble in Water, and found in all parts of the earth, frequently combined with many other substances, and in various forms —

Tin is a white silver coloured metal, and lightest of them all — possible be low red heat. Its oxide is not volatile —

Nitric acid highly concentrated dissolves tin, forming tin. Nitric acid dissolves both the Sulphuric acid & Muriatic acid, but has no effect on it, unless joined with mercury in the form of Merc. Corros. Sublim. The Sulp. acid will dissolve lin. It has a very strong affinity for arsenic. In reaching nearly objectable in tin, when both boiled in a quantity sufficient to be contained arsenic.

In its solution to metals and when joined with Sulph. forms that kind of metal. That is, any bodies are made of tin, lead & quicksilver together form a metal amalgamate in tin with the addition of common salt form. The acetum Plumbum can add tin united with quicksilver form black lead. Tin is insoluble in water nor found in a value. Tela — Pure, & omni is the only mercurialism used as a medicine, it is best to be given in large doses. Tin acts on the system in a somewhat mechanical —

Iron. Its colour and ductility is well known to every body — This metal possesses a peculiar virtue to itself, in being attracted by the Magnet, differing from all other metals in this particular. It is easily made red hot, than other metals, but requires a great deal to give it — It burns in much accelerated by heating it, not before white hot — It is said a most of the, imbedded in the Earth: of Oxygen, Iron in the Peroxide, forms the red ochre or green vitriol. Nitric acid joined with iron and afford to the action of fire sends forth inflammable fumes — Muriatic acid slightly acts on it — The Sulph. acid acts on it and its action is much increased by heat —

The Alkalies precipitate, and the precipitation of iron made with any of the alkalies is in the hot red, accompanied by a peculiar fact, forms the difference between the brown colour of Iron and the contained iron —

Iron can be made to the calcareous earth — having lost its acid from a sudden decision of iron and Flints, is second to iron & the iron being scharcted undergoing that rapid metamorphosis, and inflaming — the difference iron that made by the Collision of two flints, as the latter can only be seen in the dark, disposing no heat — it has a peculiar relation to the electric fluid.

Lime is not commonly made use of to separate Iron from Ore —

Continued

Has a very strong affinity to Sulphur — Fulminating Iron and Sulphur wet with water and put under the ground after remaining a short time, produce violent explosions — the consideration of this leads to accounting for Earthquakes — Spirits, which abound in the south every where, but more in some countries than others — are composed of Sulphur combined with different metals such as Iron

Copper &c. but most commonly joined with
Iron, as it abounds most plentifully in the bowels
the earth. The pyrites only wants the accession of
water, to produce all the Phenomena which are
called Earth-Quakes, the effects of which,
are of three kinds, Explo-
-ding, trembling and undulations — the escape
of fixed air produces the two first — and the whole
is produced from a sudden evaporation of
a quantity of water, and the escape of fixed air
together — When we consider the vast quantity
of fixed air contained in Pyrites, viz a Cubic
Inch of its containing 83 Inches of vital air; it
will not be hard to feel to reconcile the wonder-
full effects occasioned by earth quakes —
for only take 3 ℔ of Powder, which contains
a good deal of fixed air, and lay it two feet
under ground, convey fire to it by a small
aperture, and on its exploding will shake
the earth twenty feet round. The Pyrites only
want water to make them explode, as Powder

well by fire — and those countries, that abound most with Pyrites, and situated near the Sea are most subject to earth-quakes, Volcanoes &c. — Pyrites, and determines substances feed the Volcanoes and keep them burning — which is attended with happy effects as natural conductors for the angried air — Wells have the same good effect in preventing earth-quakes — if so seems depends on the mixture of water with Pyrites — and the different kinds arising from the usual parts of Pyrites in the bowels of the earth, being decomposed — for as a mutual attraction of the P. I. of charcoal — and the iron until it is red hot and ignited in the water — this process requires repeating — steel is only iron containing a great quantity of the P. I. and can be reduced to iron again by the Ashes of bones — iron unites with all the metals save mercury & lead —

the rusting of iron is owing to the separation of the
E. S. or spontaneous vaccination — every thing
we use to incorporate from rusting, including sep-
ing, oil, varnish &c. but the best is a superficial
vaccination — Vegetable astringents, precipi-
tate a solution of Iron in the Vegt. acid, chang-
ing it to black — Writing ink is made out of the
Vegt. acid Iron, & some Vegt. matter — Ink changing
black after write wrote on paper, is owing to
the watery particles giving off, and its thickend-
ing, or setting back after some time is occasi-
oned by a conversion of the Vegt. matter.
Receipt for making ink 1 pt. Vegt. ℥j log. ℥j
gum arabic ℥iss Iron ℥ss water ℥40 —
Infusion of Cloves in spt. r. is good to prevent
ink from gaoing — Sweet milk corrects Vegt.
acid — guards to eye black — Tinnen black
and leather with Vegt. & Water 1 oz the black
varnish — the other with lamp black & oil —
Iron is found all over the world — the different

coloured Glasses are frequently owing to a combination of iron — sometimes it is found in a Calx, sometimes with sulphur, also mineralized with Sulphur, sometimes the magnet. — Iron ore is best distinguished by the Load stone —

Specific Gr. Copper.

is metal possesses less S.G. than iron neither sonorous, but is capable of great Ductility and malleability. When it is in fusion rare seeming phenomena and water coming in contact with it in that state, produces wonderful effects, by a very sudden Evaporation of the water, and the fixed metal flying with great Velocity quaque versum. This is manifested by throwing it decrepitating a small piece into a quantity of water — It is not easily acted but readiest just below its giving heat — All the acids act on it more or less. Blue or roman Vitriol, is a composition of Copper & the Vit. acid, tho most readily obtained from

Pyrites of Copper, always containing small quantity of iron, as those two metals are frequently imbibed in the bowels of the earth. The Nitric acid acts on it, also the muriatic when joined with Nitric in the form of Nitro-muriatic. Lib. the Vol. acid act on it in the same manner as it does on lead, in the separation of Bullets may be boiled in copper Vessels with impunity if not allowed to remain, and cool in the Vessel. Preparations of copper with acids may be decomposed by heat, or the Alkalies — A fine blue colour is obtained by precipitating a solution of Copper in the Nitric acid by a Vol. Alkali, this must be done in an open Vessel, otherwise it will not assume that colour, owing to the first attraction of the nitrous acid to the P. G. Colour is entirely owing to the P. G. combined with different substances, and in various forms — The various colours of Vegetables evidence this;

in vegetables growing in the dark or under ground are white especially given by ~~[illegible]~~ Cellars.

Copper readily unites with Sulphur, and from attraction to arsenic, changing its white — Iron is frequently used to precipitate Copper commonly from any of the acids — Iron dipt into a solution of Copper in the nitrous acid is turned blue.

Copper mixes with all the Metals — Zinc, Copper compose brass, pinchbeck &c. are all compositions of Copper and Zinc —

Lead wont unite with copper except in a vitrid state — Copper is found in all countries and its ore is best distinguished by its writing it with some acid forts, and afterwards with some of the Vol. Alkali, and it strikes a bluish colour.

The Perfect Metals —

They are extreme ly ductile and malleable, one grain of Gold admitting of being drawn out three yards in length, and two inches in breadth.

They are capable of undergoing the most intense heat without injury, having an extreme great affinity for their O. G. A Bog will act on them emitting fumes — they are incapable of calcination either by heat or air; When these metals are reduced to a calx, easily resume their primitive state by attracting the ~~[illegible]~~ O. G. from the air. They stand the scorifying of lead.

Silver, this valuable metal is well known to the world — Dont rust by air unless a great acid is prevalent. It undergoes fusion in less heat than copper. Most of the salts combine with it. The Vitriolic acid act on it: The Nitric acid in the form of aq. fort. most readily dissolves, and acts on it — a solution of silver in a diluted aq. fort. changes hair black and is sometimes used for that purpose. The Muriatic acid acts best on it in a calcined state.

luna cornea is a composition of silver and the muriatic acid, and has been mistaken for malleable glass. Silver combined with nickel, it is soluble in nit. Sulph. abounds most plentifully in South America in sometimes round masses, and most frequently mineralized with Sulph.

2nd Gold, When this metal is pure, it is ~~soft~~ inelastic melting in a white heat, unalterable by heat unless amalgamated, and then may be calcined — Its only one best menstruum is aq. reg. composed of the Nitrous and the muriatic acids — The nit. acting on the B.G. and the muriatic on the calx. Gold reduced to a Powder is called aurum fulminans, possessing the property of explosion, when exposed to the action of fire — Its fulminating property may be destroyed either by water, or the N. acid.

Gold is a powerful, or called, fate has
strong attraction to sulphur. It is easily
reduced to its primitive state — Hepar
~~[illegible]~~ sulphur, ~~[illegible]~~ will dissolve Gold in quantity —
It is supposed that Moses dissolved the
golden Calf with it, when he gave it
to the Children of Israel to drink
as it forms one of the bitterest draughts,
represented in Scripture, being a
severe punishment on them for their
Idolatry — Regulus of antimony
is useful in the periodic form of gold.

Tin, the wild mineral.

Silver or copper is always combined with pure
gold to make it harder and more durable called
its Alloy — The gold coin is always mixed with
one twelfth silver, or copper. This valuable
metal is found most plentifully in the French
West Indies, found also in Germany and Hungary
In Africa it is found combined with sand on the
sea shore —

In France several rivers are found to contain gold — [illegible] that sands that are opake black, and heavy, containing some iron are most impregnated with gold [illegible] in commerce like other metals — it may be done by amalgamation or [illegible]

Chlorine [illegible] either [illegible] gas [illegible] a chemical [illegible] several [illegible]

[illegible]

[illegible] have [illegible] in Water investigating its composition [illegible] it is found that there always an earthy earth which can be procured from it either by distillation or precipitation. Hence the more are [illegible] it was supposed from this [illegible] that there was a daily conversion of water, and in the final annihilation of all the water abounding the world the general conflagration would take place [illegible] is absurd [illegible] — But what it may lose in one way is repaired from the [illegible]

* Each particle of the Pollen contains an Embryo
or Vegetable —

a lodge.

Waters are divided into common and medicinal. The medicinal are those which have the medicinal property of the waters called Cathartic. — Mineral water is the most impure water containing more or less Veg. or animal matter, capable of undergoing fermentation and putrifying itself.

There are two Phenomena in common in water that demand our attention 1st Some thing appearing on its surface much like Sulphur, sometimes being mistaken for it — but it is nothing else than a pure light substance called *Rotten brown from Vegetables commonly taken into the air by which winds &c. and brought down with the rain — 2nd A red appearance in Water, which is entirely owing to a number of little red animals in it. The colour of the red sea depends on the red sand at its bottom and shores —

Pure Water — continued

The Violet acid is the same one of the Lich-
ten that has been found in Water, procured
from Cuttles which, retrogressively, abo-
unds in the lowest of the earth. It is dis-
coverable in some measure by the taste,
from its charming Violets &c. & leaves
with Alkalies, and becomes fixed by
lead, and precipitates — Pure are also
impregnated with Alkalies — from the
putrefaction of Plants &c. and discover-
able by their turning Violet green & leaves
with acids, undergoing a decomposition and
forming Sal. am. fix. If a Cuttle
corrosive Sub. be added — the Mercury is pre-
cipitated — If the Water contains Cob-
ic pyrites, and a Sol. of Cor. Sub. be mixed,
it precipitates the mercury green —
Waters contain calcareous earth, it attracts air
very much, and becomes fixed — This kind

Sulphur effervesce with Acids — If a Solution of Sr. Sub be added, a yellow precipitation ensues — If you add a Sol. of Vitriol, Selenite is formed, it seems — earth, be exactly Magnesia, Selenite is produced if its lime like Alum is made. Crystal, or Sulphy extracts are soluble in Water, Hence never impregnated with them —

Waters containing Inflammables —

It has been supposed these ~~waters~~ contain Sulphur, but it is not the case, either ever containing true Sulphur, for it is insoluble in water, and what has been mistaken for it, has been only the P.S. Experiments have never shewn that a true Sulph. can be obtained from Mineral waters. Naptha, and Petroleum are combined with waters — The first is found at the bottom, and the latter floating on its Surface — These are known to be bituminous from a latter

produced from an agitation of your hand in the water —

Iron and copper are the only two metals ever found in water —

Iron is detected in Water, with addition of a few drops [illegible] it [illegible]* [illegible] experiments [illegible] visible without the [illegible] but in animal and vegetable bodies — the quantity of iron in man is [illegible] in the [illegible] is [illegible] of Glauber in the [illegible] is precipitated [illegible] but it [illegible] a fine jet black — [illegible] Copper on the addition of Vol. Alkali is changed blue — Water changes green white —

[illegible] Water

[illegible] contain common salt in solution, and they may contain Glauber salts, but [illegible] as far as [illegible] the presence of com. mur. It is known by its being made milky on the addition

the solution of silver in the Nit. acid —
the presence of earth, with silver, alum
the mode discovered several years — and
it is best by evaporation — earthy
salts such as selenite, sulph. are precipitated
in compound waters — since the precipitate
that they do contain from some, that pecu-
liar smell like metal or phosphorus sulph. but
other effects resembling that same smell — If
smell is owing to the contained P. G. —

Metallic salts are found to be contained
such as green blue and white vitriol —
the latter is most commonly combined, and
is known by changing blue into white.
Vital air is always present in ~~[illegible]~~ Water
Fixed air is not so frequent, but may be
known by a brisk agitation — by its extinguish-
ing a candle held near it, and by its fill-
ing an receiver — the fermented waters con-
tain a good deal of fixed air — This water
can be made by Art —

*. Tailor & Son in Chancery Lane. Things expected
much on Tuesday the Twenty-Fifth

Lecture 8th Feb 4th

Gases.

Gases are divided into Vital and Mephitic

1st Vital are those constantly subject to be im-
pregnated more or less with foreign matter from
animals and by putrefaction &c. which not
coming under properly the head of impurities
rendered as bad as the more mephitic kind
the air we breath and live in and depending
from fixed air, or being in an exalted or
unfixed state.

Fixed air.

This is that fluid called mephitic air and is
known from its extinguishing flame giving
readily to animals that breathe it and
rendering lime water turbid. Vital air
is the direct air, yet as favour the water
has no markable action on acids, the new
heat or alkalies, and varieties are
giving them causticity.

Vinegar contains the most potentially — Orange
Iron and copper cannot be dissolved in water — Liquids
in cabbies excepted and fixed oils from water,
it follows that you ought to keep this kind of
water in most be stopped as tight as possible.
Likewise the surface of the water will be very
considerable remedied — The polluted with
water containers much fear of air exposed
very epidemic cases and most prevalent —
Lacepede — Spread on wells, surface
of all the earth, in the grotto Dectna in the
different animals live different lengths
of time in the insects and frogs live the longest.
Fermentation produces the also the remedy
putrid lender one time, carbonic P. G. and
uniting with the fixed air — or fixed air
is composed of the C. G. and lit. air — The
inventions of animals corrosive, but have reactions
with the P. G. and it coming in contact with
vital air —

Animals decomposition all bodies, and
in separation from them other always
produces light or heat — animal Bodies are in a
constant respiration and imbibition, the P.J.
and are constantly respired by the Plan-
-tements taken — 1st the same from
bodies indeed the P.J. would be meaning
all that air rendered in pass back
bodies are in fact it to some wise
if the mode, in the manner ~~[illegible]~~ a
~~[illegible]~~ fixed air —

Here fixed air —

Dr Priestly supposed it was the same
as Plants &c. But Dr Ingenhousz differs in
opinion with Dr Priestley. He thinks
it probable, that they attract the P.J. from
the fixed air — The P.J. having a strong
attraction to the Plants than to the
vital air — Fixed air affects the

the whole air, but is rendered tenacious
water — Air is very powerful, Dela-
ing taken into a small, and the
Difficulty of Hell after a full meal
is owing part to the generation
of fixed air from fermentation in
the stomach — It has been found
a very good antiseptic, and vitrentic
properties are attributed to it when
internally administered —

Chap. 4th

[illegible]

[illegible] Fa-
ther, [illegible] very [illegible] tenacious
of good opinions [illegible] Parent — [illegible]
in his late [illegible] Employment of [illegible] Phlogis-
ticated Air from Fixed Air [illegible] Phlogis-
tication, whence others have been found best for
that purpose, and hence we till to see Fixed
in the worms, where Jack may lie —

Particulars.

The mercurial will rise in heat, little above that animal, and in cold sink to 32 degrees from the thermometer. Such different liquids require different degrees of heat and cold. Our sensations vibrate from extremes and their intermediate also the P.P.

No, there are true colors for these properties, and the real true colors so much mistake injure & cut, and is found to prove both on dry foils. Time reflected & weather, every time of the back to decay or the superfluous moisture. Respiration a fine with internal matter & quickens and increases the flow of sap, and checks vegetation in the spring by obstructing the circulation. Vegetables differ from the animal system in having no fibres, but similar in respiry, nervous system, running in straight lines, endowed with irritability and sensibility. Motion and contraction

where they
Vegetables upon least Encouragement. They Bark
and the moth feed, & from which the new growth
feed, increase. Water is it cannot be as the blood
is animated — They are equally influenced
by the Sun which is seen in all Vegetables and
especially the Sun Flower. The light of the Sun
being generally essentially necessary for their
production and growth. The Air is of great
service — The the Water the Sun, and the Earth
nourishes
now almost equally as well in one country
as another — Of the Fruits, the same species
are alike in their Origin but liable to great
Variation from Cultivation, and Climate —
The Thorn bush by Culture will lose its
prickles likewise the Pear and in 221
great change — Vegetables by chemical
analysis yield air, water, oil, salt, earth
and charro Matter — Fixed alkalis is
made from Vegetables by fire, and not from
Animal Substances —

In their nature & be very affect from every
fire &c. Sugar is a very powerfull antiseptic
& are very nutritious — it succeed most powerfully
from the juice of the Cane but it has been
found that the Maple birch hickory hemlock
&c. also afford it. It is made thus viz.
the juice intirely till it begins to approach
the sugar — then it must be taken off the fire
& cooled and drained thro bags —
Farina of grains &c. much resembles sugar
& may be substituted in fermentative processes such
as Distillation &c. Acid and positive are reducible
to pure chemical relations —
It succeeded in 3 trials times neither
and the putrefactive — the ~~two~~ latter generally
also with the ~~latter~~ exception — Putrefaction
will turn on the general fermentation
so rapid that you are not able to distin-
guish between ~~them~~ them —

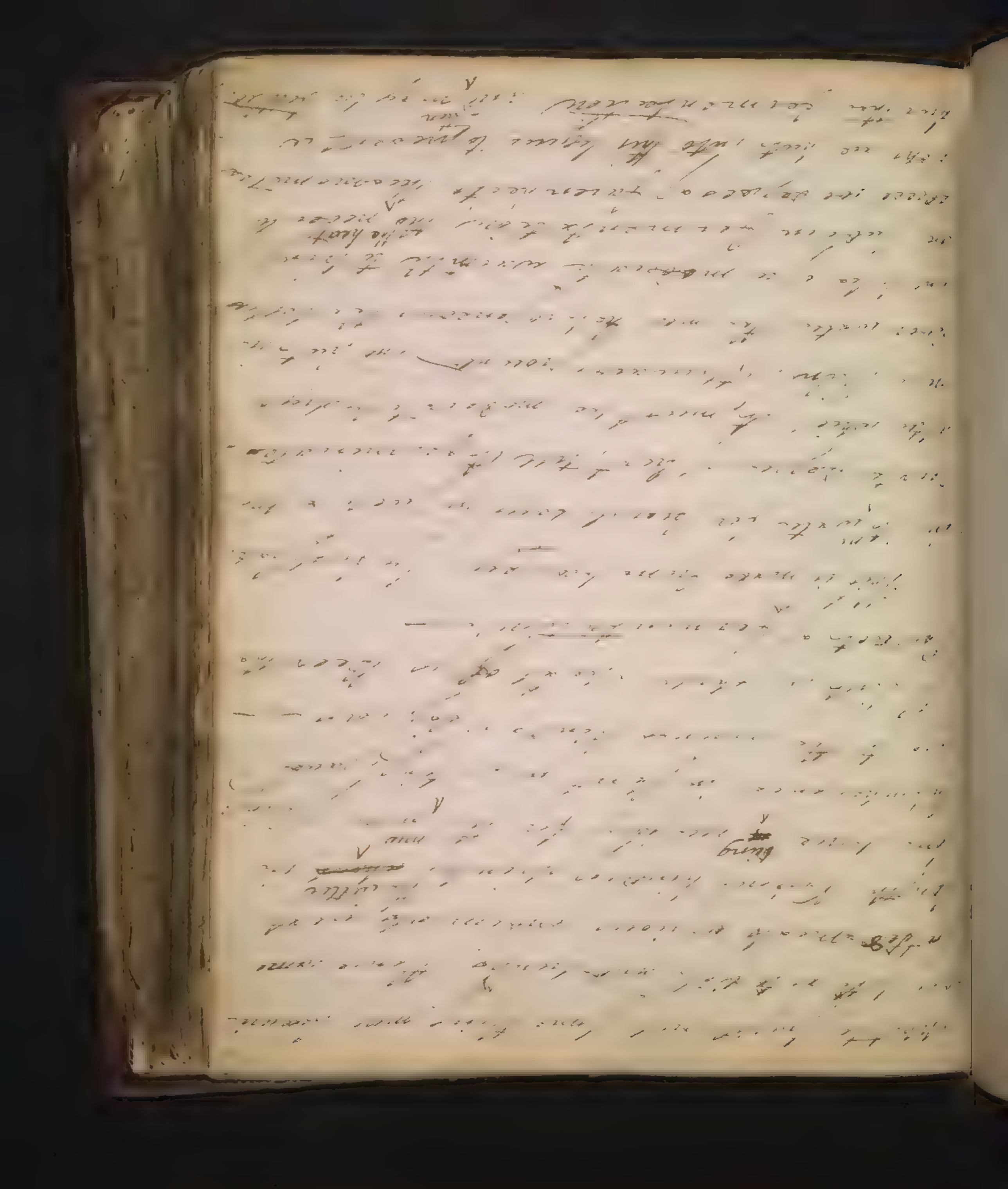
the lower fermentation generates the most
air. A proof of which we get, the bottles
by which, and the other action, from
which, heated made to the stream —
If the fermentation be made with
the finest fermentable, but the most
active methods of the particular —
Impregnated 1st or Bread with the leaven
mixed. It is a very valuable invention
that was found accidentally. The making
up bread in the same basin containing
lime or the old dough — which also
as a leaven in making the next company.

and wants a lightness, and a good more agreeable taste — A receipt for making the Barnet rolls — It is Half a pint of Virginia wheat flour, 10 Eggs Half a pound Butter Half a pound sugar temper them with warm new milk — let it stand the space of length of time — then just before you put it into the oven wet the surface of the rolls with a mixture of Egg white flower and Water —

Meat is sometimes not wholesome to some constitutions — the fibres of which digestive organs the ~~[illegible]~~ food in, and the extract may be kept for years, if evaporated, paste be come solid —

The best kind of bread for weak stomachs, and troubled with acidities is the water biscuits.

When Bread becomes sensibly affected with the putrefactive nature, fermentation, mixture



[illegible]

[illegible]

[illegible]

Juice must — Fermentation with
some water to fermentation would
then hand-pressing is not practicable
in quantities — If, as it is generally
believed of wine, all the precipitation
takes place, it is evident that the
wines must be increased
by deposit this part including all the
bottom of the casks to be regenerated
tation which is some of deposit to
form, or motion — The freezing of
fermentation, times influence
this which all the Thermometers in
Scotch [redacted] well know —
So to avoid use the wine fermented
not use the juice first, fand. Hy
chemically the gum or mucilage
the fermentable matter of the juice
animal will hasten the fermen-
tation of all wines —

Compressed into wine are a concentrated water of the substances contained in the alcohol the most salubrious for the drinkers, as it invigorates the system, induces sweat, and clears the pores —

Wine as a medicine is antiseptic by its solvents are acid in the system —

Drink as a digest and inflammatory body, produce from the fermentation therein acetic and gracin — that is called rum, is made from molasses 40 gals to 300 gals water — the fermentation is a chemical change which is hastened by adding some rum — and a fine tasting rum previous ferment. also called fine — time that marks in the rum is in the making, sugar tends to retard the fermentation

imagine the medicine adding something,
to him or more specially —

Vinegar. Wet liquor must be
made sweet or some thing. Liquor that
is acescible & corrosive, seem the acetous
fermentation, & can add liquors is
always the introduction of that process.

Jan.y 19th

Medical and Chemical theories "animal"
bodies considered —

The first time I saw commonly
like the sight of a person bewing anemal bo.
dies is death — this necessarily leads to the investi
gation of the cause of this perceptible death.
Various Opinions have prevailed respecting it, and
many Hypothesises have also been made to prove
the different necessary instruments — Sir Everin
attempted to account for it by the putrefactive
fermentation taking place in the system. men
tioning him, that such a process did take place
in the solids, and fluids of the body — Stimulated

be gas deficient, & accidence and prove that animal heat was caused by it — as daily experiments, & common sense, that a increase of heat from the pulmonary lungs & fermentation does not be the source — & that was the case, the heat in hectic fevers would exceed that in inflammatory fevers &c. which we all know is not the case. Others accounted for it by the friction of the particles of blood against the sides of their vessels &c. This advancement is as fully inadequate to the task as the former, for it is impossible to imagine that the very minutest in a vital by the severest agitation — We also know that it is necessary to generate heat by the friction of two bodies, that one or from must be at rest. For a rope that runs over a pulley, let the motion be ever so quick, has never been observed to create heat.*

In some former lectures it was shewn that any bodies heating with fire or friction generated heat or light. We then proved

that an m.d. would die in consequence of the P.J.
for heat, calorific & producing fever & the wheels
in my x amphitheatre & stir air into the P.J.
& prevent coagulation but the application of the
mind in enabling to overthrow the
from a mere reflection & what has been
advanced of the effects of the P.J. from bodies
producing either heat or cold: it follows that the
most rational way of accounting for animal
heat is the constant & indefatigable
exhalations of the P.J. from the body.
For heat of the animal body is generated in the
manner with that common fire, consists of the
P.J. contained in our excilulatement;
which supply is absolutely essential to
the preservation of heat, as well as the having
a fire - on our dinner and good that con-
-sists a good deal of the P.J. or drinks, the
natural consequence is an augmenta-
-tion of heat: or any thing that tends to

Almost numberless hypotheses could be mentioned, all which are erroneous, and as extend, to Deal those that have been mentioned.

produce a greater seperation of the P.J. such as running &c. &c., or accelerating the motion of the fluids in any way, always increases the animal heat.

animal bodies being analyzed, yield salt, oil, and earth. — In drawing blood from the animal body in a vessel it habits is observed flying off, which is the fine volatile and watery parts of the blood. The blood contains globules ~~[illegible]~~ lymph, and serum, but when left to itself in a cup the spontaneous seperates into serum and crassamentum, and ~~[illegible]~~ ~~serum~~ ~~[illegible]~~, the latter forming the buffy appearance ~~[illegible]~~ on its superficies. As no fat is subsequent to be increased, or diminished at pleasure either by making the orifice greater or smaller as the area of the cup. for the more rapid flow of the blood into the cup, and the in its surface or area, consequently, the less habits the much greater is the buffy appearance of the blood

hence the Buff of blood, a very ga'lacious Diagno-
sis of an inflammatory diathesis —

Each component part of the blood considered —

1st The globules, the imperfectly called fibre, for late
examinations shew that they are neither globular
nor fibrous, but flattish, resembling an oyster
shelling; they are inflammable, but not easily
miscible with the other parts of the blood,
not serve to keep the lymph from coagu-
lating, as with the serum and serous, and so
with the growth of animals by elongation.
~~[illegible]~~ Lymph. Fibrous tasteless
substance, both experiments on it have not
yet proved any thing certain — It much
resembles the white of an Egg only not so
hard, and easier coagulable, those fibres is readi
ly coagulated by acids — The lymph also
will coagulate in cold, which is not the
case of the white of an Egg —

The Lymph sometimes coagulates in the divine bo-
dy either by heat, or some acid substance coming
in contact, or by a slow circulation of the
blood. for heat and motion is necessary to keep
all the parts of the blood, intirely disguised
together — Hence the origination of Poly
pi — Styptics are used to stop hæmorrages by
external applications on the same Prin
ciple — by their action on the Lymph —
3. Serum. Contains a saline substance
of the ammoniacal kind, its liquids the
muriatic, and the Alkalies, are watery
and fine Volatile parts —
It has been supposed that the blood con-
tained an oily substance, tho not as yet
ascertained, also that Chyle existed in
it, The latter may be, but, is not
discernable — as the milk is secreted from
the blood in large quantities, which from

being so very nutritious is supposed to contain a good deal of Lymphe.

From Dr Monro's experiments, it is fully proved that the blood contains air, the in a semi-elastic, aëriform state, also that the pulmonic membrane contains quantities of air in an elastic state. Hence Emphysema takes place in the system without a communication to the Cavity of the Thorax &c. Spirifer, the natural analysis of the blood which carries us to ~~the Chymical Analysis~~ a pathological enquiry of it.

Jany 13th

Brief Pathological enquiries into the blood. Dr Gaubius with many others have affirmed a number of Causes producing a lentor in the blood such as Spirits, acids, Saccharum &c. &c. but they hardly deserve an answer or refutation. as we know that all things taken into the stomach undergoes such a change by the different fermentations taking place in that organ.

and should they not be perfectly assimilated, and
undergo blend their mixing with the bile in the
duodenum causing great a mutation, that
it is absurd to suppose that succeed inducee
any inflammation or lentor in the blood — and
if any change is ever wrought in the more by such
causes as they have advanced they must effect
upon incident action on the fluids, but
even this is hardly the case —

And their opinions of the inducton of many
complaints from lentor existing in the
blood, is equally as idle and gratuitous —
Their fanciful notions of a morbid generating
existing in the blood, and producing a variety
of diseases doth hardly merit an objection —
For it is so obvious to the senses that when over
large quantities of fluids are taken into the system
that some one of the secretions are so increased
as to throw off the superabundant quan-
tity — and even granting that any accumulation

upon could be taken up by the lacteals the oil existing in the adjacent membrane would correct it — The curves is the only complaint, that the bilious are immediately affected, and even in that complaint the prevailing accurrence has no effect on the secretion and excretion as the increase their action for a few, and weak pulse commonly attend the disease —

Stimulants — only act indirectly upon the heart by the intervention of the production commence.

Many have supposed that acids, received in the liquids of the system from acid meats breaking out in many complaints — but these sweats were not truly of an acid nature as they will not change Violets red —

The Existence of an Fixed Alkali is another of their improbable hypotheses — No ~~[illegible]~~ of these any substance of the blood ~~[illegible]~~ has ever yet shewn of ~~[illegible]~~ lymph

vitable or changing Violets green which is one of the known properties of alkalies — but what has strengthened their opinion in this vague deductive — is that the cream of the blood on being mixed with violets renders them greenish — but this is a weak proof of their doctrine — as it is known even by the most illiterate, that yellow and blue mixed together always are changed green and as the common colour of cream is yellow — their tinctures should not have made them vivid in its redness as manifest —

Volatile Alkalis being the result of putrefactions it is impossible that it can exist in the system in a living state — Alkaline salts of the ammoniacal kind can, and does exist in the blood a predominancy of it in the system is the proximate cause of scurvies —

And any thing that may tend to its production,
or the predisposing causes of that complaint,
just as obstructed perspiration, sedentary diet,
intemperance, want of exercise and a too free
use of common salt — and its cure intirely
depending on evacuations ~~[illegible]~~ & Cleanli-
ness & rest — It is observed that
in gonorrhea complicants there is not the
least tendency to putrefaction, but quite
the reverse — for a patient affected in this
the urine seldom, if ever is attacked with
Bilious Complicants — also the serum of
their blood is rapidly consumed & exhausted which
has been proven by experiments —
Formation of pus can be effected without inflamma-
tion — when inft. arises from an effusion of serum
no suppuration takes place, but if serum and
lymph are effused, pus is formed. and if the red parti-
cles, & lymph & serum are, mortification ensues —

June 14th

Apropos of pictures

The ancient Egyptians, with many others in this
day are so infatuated with their hypothetical ideas
of nature, the matter existing in the global or the
later, pursuing ideas so unnecessary that they
vainly attempt to account for the creation of
science on their principles, and their indica-
tions. There are hence distinctions that are
absence of the beautiful, and indeed cause a
frown without any visible evacuation, much
less of morbific matter. The deep sections
of the mind, lightning &c. &c. &c. that
would be idle and wasting time to sum up
the many obvious, the evident facts to
delineate - that immediately; for none but those
impressed forcibly with the prejudices of
education will zealously attempt to make
that doctrine a superior tenet, or their

practical & practice unknown —

in the time, & independent, resorted to have

recourse to nature, thinking that their mor-

bid matter could not be expelled within a through

connection was accepted — and in this manner

used to facilitate their patients to their en-

~~the fanatic belief~~ —

Some of the most eminent Physicians

this present age are of opinion that putrid

exhalations and miasmata act primarily on

the fluids of the body changing them into

a morbid state bringing on all the

alarming and fatal symptoms consequent

on Pestilential & putrid complaints —

I think ~~it may very reasonably~~ its modes

operandi, may be accounted for on more

rational and sound principles —

The putrid miasmata whether taken into

the system by the mouth lungs or pores

of the inflammatory theory of the medical cause
of nervous irritation, or irritation of the nervous system
and of inflammation of the stomach & bowels
in those complaints, notwithstanding the putrid
state. The latter theory, however, is in
the opinion of Patients, supported by some facts
which are produced upon the part of the com-
plaint be false. Finally, reasoning the com-
mon construction of mutter that it is always
intended should be excited by the physiqu
while the disease is connected and there
were is objected to deposition a large amount
which they have called the name of mor-
bific matter — Critical abscesses in general
have given rise to that ground less and
extraordinary way of accounting and repe-
rting these unstable doctrines — Wh
fore they are speculative or hypothetical they
need not go it on more rational principles.

but as it can be done in a more satisfactory manner, it is incumbent on every one to provide for the use of the one final immediately Cervix — Effects commonly arise about the cervix or neck — which is caused by an effusion of fluid: the blood is warm, and supplies the living piece in consequence of the parts that left up the good health removed and causing lively inflammation in the interior, as the living matter effusion — perspiration — This leads gives a substance containing water, and ammoniacal matter — Urine defenage, the proper parts of the fluids, and carries off those that are not nutritious — Contains a fine oil, V. alkali, and the acid of phosphorus constituents sometimes of the ammon. Salt, or sal. ammonia —

Secret. If the liquor appears to contain all the bathrome parts of the body and dim. not. yet the liquor contains a good deal of bile, Vol. Alkali, Phos. acid, and air —

Blood. It contains water with some solid matter. also some serum. The accretions commonly observed on the teeth are formed from the saliva. It sometimes will concrete without a fluid substance. Saliva, neither promotes concretion much more than does water.

Lymph. Hence experiments prove the effusion of Lymph. Hence not unlike any, experiments are made, much the same, the Lymph Bonifacius — Hence this gives our Hypothesis — Saliva Fluid — differs in different animals — Lungs not perished entirely by tissue and force. Hawker gives the same successive.

to attain the exact nature of the gastric juice is very difficult, and its several and different properties, are not quite known —

In the human stomach mechanical force has very little to do with digestion — the aliment taken into the stomach meets with the several juices that is secreted into that organ, dissolving it for digestion and the seeds fermentation — great heat takes place in the vessels and decay; the food after the acetous, the putrescent completed this part by was at the pylorus into the duodenum, there meeting with the bile, and on their mixing a test acid white opposition: the chyle becoming fit to be taken up by the lacteals —

2 Ist Lecture

It is said that animal life, sensation and many functions are performed independently of the most deceiving that sensibility & action are entirely depended upon an influx and reflux of fluids from the brain — but the transition is so rapid and instantaneous a manner is rather inexplicable. The hardness of the nerves would mechanistically, flow. I am rather induced to be of opinion that impressions are mechanical and by the intervention of matter. Nervous fluid surrounds all the nerves; and in an electrical body, it is liable to be increased and either made more fluid or rigid — Motion is an effect of the nervous fluid as also fear, anger, pleasure, and &c &c, all which tend to decrease the nervous fluid. And an absence of all impressions is the only cause of sleep — Narcotics employed only are subject to produce sleep. Cold prevents sleep by keeping up a constant impression, and pain by destroying it. The state of sleep is a state of equilibrium &c

Figure of impression, the remote cause which
consists in an stenosis of the brain, or, stated the
proximate cause or seat of pain in the brain
matter, state of excitability — It is very
certain that stenosis is produced very frequently,
in the, teeth it always, fundus in like manner
the effect stenosis of the system produces con-
vulsions — Pleasure and Pain arise in the
same manner, the former arising from
relaxation, and the latter from contraction
of fibre. Dreams are produced from a partial
or slight collapse or stenosis of the brain
causes, which are, tend to bring on dreams, or
up to their [illegible] state — Sincere attendance
on the Principles of the highest rise of [illegible]
treatment of the nervous diseases teaches plane in Mania
which has been frequently cured by severe
labor. When a total collapse of the brain takes
place, death is the consequence. Lightning
acts on animal bodies by absorbing its Effec.

Glandular Structure of the Brain.

The Composition of the blood yields the true nutriment to the body secreted from it by the various glands of the brain indeavoured to evince that the secretions for the various purposes are alone and constant, entirely depending on a due circulation of the brain — The circulation of the blood answers the purpose of regulating the animal heat of the body, totally the brain with the exception of secretion — and giving tone and energy to the nerves — and the vital parts — The Brain is supposed to be the primum vivens, & ultimum moriens —

Question 15th

Give the consequences of

Idiocy — In the case of all the Senses and especially the organs which convey intelligence to the Sensorium and to the Sensorium mental faculties — These organs if ever, would be better included to inform their Sensorium mental faculties since

the effects they produce, have been explained by certain fixed properties and virtues, and a specific power, adequate to produce such and such effects —

Of the impossibility in Physic to be studied. —

and accepted for all medicaments that are powerful will not be in a condition to be without being complained of. Hence arises that accidents and even the death of diseases incurable and even be healed by some accidents, which must [illegible] [illegible] — For the medicaments produced are superior in nature to the diseases, which are very few, it is [illegible] an [illegible] that are [illegible] and such as are the same impression, it is unavoidable recourse to compound [illegible] — in combination of some medicines, ensure a very good purpose such as joined with [illegible] with [illegible]. For the cited in the Pharmacopeia correct the naturate qualities of

the effect in the same manner as it is known
to have the quality of acting upon the system
alternately in medicines of similar
virtues are combined with the best effects
for the system has habits will in a great
measure become independent
to the qualities of medicines
and the dependence of the one on the other,
and vice versa ~~relative~~ from other medicine
If this virtues for a second dose
or it be given at a time, it will sure
ly in the same manner. ——
tience ~~too~~ another inconsiderable and disadvantage of consequence in
many medicines ~~to~~ than for those
medicines have a good in some cases
and not be able to make more be neglect
ed and be obliged to have recourse to

If your prescriptions are simple it tends in the greatest manner to afford you the best opportunity of accurately pointing accompanied and complicated knowledge of the sickness, injuries of the medicine, via the fundament the effects produced for, cook, and preach Drugs indissoluble its real Characteristic, and also its management of ——— Frequently in all Dispensatories it is very frequent the combining a number of medicines together, and particularly all niche in sickness, and as the that perhaps might be answered, not by giving simply one of them — 5 in London and Edinburgh Dispensatories are the best in Europe — and amongst publication for Stitch is the best extant.

Secondly much is the interest of the
physicians, and oftentimes it depends
upon their opinions a great deal in the reco-
vering of their patients — and altho' in-
deed there are, in the tribe of physicians
this unfortunate art the learned
in medicine — however general
good practitioners it is not in their
power to make a cure on the spot
of every patient it may be, notwith-
standing their good intentions. Medi-
cine and will in reality render the name
of physicians less respected than they would
have been for if it well
known to every body how much
importance the mind has on
the body —

that wine & other medicines
should be dispensed in their bottles
therwise the inscutcheons & directions
maintained worth, lean a mere form
part of the ornament, and the
point would have equally gained
provided a medicine — & their
includer the contents on dispen-
ser —

Otheir —

[illegible] Lecture [illegible]

[illegible] on the [illegible] Medicine. —

[illegible] be divided into [illegible], [illegible] or moving the and fluids. and that [illegible] when the [illegible]: that before it could enter the circulation it must become almost [illegible] by having [illegible] similar [illegible] to that [illegible].

The [illegible] and [illegible] which [illegible] together that [illegible] great [illegible] between the and the other [illegible] but more [illegible] with [illegible] for example the [illegible] common [illegible]. [illegible] that [illegible] between the [illegible] for when [illegible] to the [illegible]. —

The [illegible] seated [illegible] and occasions frequent palpitations of the heart, which is [illegible]

The gout removing from the [illegible] to the stomach quickens the pulse greatly [illegible] again to the [illegible] and the [illegible] resumes its former state.

Draughts of cold water taken in the cold fit of an intermittent, or the vomiting that commonly attends it, have been very much to bring on a diaphoresis.

The powders of a mild nature, such as the antimonials, or antimonials, are recommended to the consideration of the medical profession, and perhaps have not been so much as they ought to be, since they are supposed to have effects, and effects on the skin after a very short duration. These medicines all serve to prove the great sympathy that exists between the stomach and other parts of the body.

Cathartic medicines, emetics, and the purgatives, and it to be removed slowly and gently by a vegetable diet, infections of the simple fever, also are recommended strongly.

Acrid substances enter the circulation both partly and quickly by urine; Opium more acts on the nervous system when taken in large quantities, see [illegible]

From these observations we may conclude that the solids cause in diseases are principally affected and that instead of endeavouring to correct the vitiated humors we must have regard to the immediate removing the affections of the moving fibre, and restoring it to its healthy state.

Nov. 26: 3d Lecture

Experience has taught that diet is much more to be depended upon in the cure of diseases, than medicines.

It was formerly customary to arrange the operation of medicines under particular heads viz. simples, febrifuges, solvents, and more recent authors add, but these are now rarely used, but of late it has been found, that antiphlogistics are the solida vivis. Nutrimenta, divided into vegetable, and animal were considered under the first Cap. Milk and bland vegetables are only fit for food and that Mustard, and the like serve to improve the taste of Aliments — Hunger is attributed by Hoffman to acids, others think it is owing to tickling of the pylorus of the stomach. Richter concludes it must be owing alone to emptiness — and accordingly we except in disordered habits — the inside of the stomach is lined with mucus, unless disordered which makes him disagree with the doctrine of attribution being the cause of hunger, and the mucus ~~much~~ must prevent such tickling taking place

Vegetables alone used as diet, produce acrity, and frequently bring on disorders of the primæ viæ.

Animal food, [illegible] power, when taken alone, as Nutriment, of occasioning scabby eruptions &c. Salt, and Sugar are very useful in diet. The latter is reckoned the first condiment, and adapted to Vegetables: is a powerfull antiseptic, and very full in fluid constituents. In digestion the Aliment is mixed with saliva, gastric liquor, bile & pancreatic: Saliva abounds much with water, and some viscid matter, assists fermentation, and has a great tendency of forming calculi, and scales on the teeth. Gastric juice in Dutch Turkeys digest by attrition. Hawks, by Dissolution, and have the power of dissolving bones in their stomachs; and grain, from experiment found not to be affected by them. This is accounted for by a particular quality in their gastric juices: In the Human stomach Digestion is carried on by fermentation, three stages of which take place, Vinous & acetous in the stomach and the third and last or putrefactive happens in the Intestines.

Bile, and acid mist together become neutral and form a ~~tertiary~~ fluid. This fluid not saponaceous nor putrefactive, mixes with water, and spirits of wine, but not albuminescent. All animals have this fluid. This secretion by being mixed with our aliments prevents too great putrefaction taking place, corrects the salival, and gastric Juices, and is absolutely necessary in digestion — all kinds of bitters resist fermentation, and have been found useful in acidities. The qualities, and effects of the pancreatic juice much similar to the saliva.

Lecture

From the experiments of Dr. Stevens, it is proved that the gastric fluid the main promoter of digestion. This is accomplished in the stomach, a circumstance, which at greater and other times, at the expence of the menses. Since it is mentioned in letter, separated were detected which could not have proceeded from fermentation as they were neither acid or putrid. The doctrine of fermentation is not valid with regard to digestion, yet it undoubtedly abounds ~~[illegible]~~ more or less in the stomach.

Acidity is generally prevent in the organic vegetables are under the divided, than animal food, and the more they contain of sugar, and oil the better adapted for aliment. Rye is found the best food for labouring persons, there is a peculiar, and from the same proportion, local in culture habits. Animal food is best accustomed for persons subject to flatulent complaints, also in hypochondriacal and hysterical affections, and that which is full grown is the best, ~~was the better~~ increases digestion; and if any vegetable substances are to be mixed with the aliment, bread and pastries, the least prejudicial. Biscuits, and hard bread are serviceable in acidities of the stomach, and any thing having a tendency to produce it, ought to be avoided — Mixture of common salt, Elixir vitriol made into beverage, indeed all acids are great restoratives to a weak and relaxed stomach. Muriatic, and common salt assist greatly digestion. A depraved state of the bile is a great cause in bringing on Dysenteries.

and as all acidulants are correctives of vitiated bile: ripe fruits, & especially melons — Vinegar and cream &c. more serviceable in this complaint consisting in a mild acid, saccharine and farinaceous qualities — Flatulent colics are relieved by giving a solution of Sal. C. C. with some drops of carminative oil, and when the pain becomes very severe, a few scruples of Laud. liquid. may be added. Acids & fruits mixing with the bile, frequently bring on diarrhoea, but are easily removed by a dose of Rhubarb, & Laud. liquid. unless the constitution is long at the weakness much are found not injurious but beneficial. Cholera Morbus arises from the same cause sometimes, and is removed by giving plentifully of chicken water &c. with Laud. liquid. and if the patient is strong, and plethoric, Phlebotomy may be premised.

No. 284 5th Lecture.

Scurvy

Symptoms peculiar to this disease, are great lassitude pains in the inner ancles, and least movable Tumors penetrating the muscular parts and ecchymosis affections of the gums &c. &c. &c. the hardly ever attended with a fever, intellects not impaired, very little Thirst, pulse weak, sometimes unequal and intermitting: at the latter stage, subject to Dysenteries which most commonly prove fatal. Retention, and accumulation of putrescent matter, are the proximate cause of the Complt.!, and in cold Countries, where perspiration, and evaporations are very moderate, are most subject to it, as all perishable matter and aqueous juices are acid, and putrescent — every thing in aliment tending to putrescency assist in bringing on the Disease, and are considered as the predisposing, and occasional causes. Moisture with cold air seldom brings it on, but is productive of plangers, Dys. &c. in countries where the mercury rises in the thermometer to 70 degrees are seldom affected with it but those below 60, very frequent, & severe, not contagious.

Nov 29th 1[illegible] above [illegible] continued

The disease is confined only to that part of the tube, the mucous

membrane and its secreting [illegible] of the [illegible],

and is seldom a subject of remorse, whether it be owing

to the act, or the accidental flood of flatulence, will never have

been but ~~[illegible]~~ [together] renders it harder to digest, and

becomes an occasional cause; [illegible] is increased

upon the [illegible] new, hard, [illegible] and acid, in a state

of putrefaction. Vegetable food with material acid

are the most pernicious, but after the attack, cheese,

very injurious — Mineral acids, after the inflammatory

affections, after being subdued, a more regular

diet with the exception of vegetables, and begin to

mend in a few days, or two ~~[illegible]~~ he seldom recovers. —

The glands in the [illegible] are primarily affected, and the

tumors that attend, are relieved by fomentations, or common

[illegible] and linseed. Emollients or drinks of a nature [illegible]

the [illegible] seldom [illegible] in removing [illegible] —

Drinks considered — There are diluents of our food

generally necessary in dysentery, but too indiscriminately

will injure — Water is good, is the best for our common drink — deficiency of glutinous solid and varied

food, alkalescent aliments, and increased circulation

on the causes of thirst, and the constriction of the salival glands, the ~~[illegible]~~ cause of thirst in fevers — fruit acid drinks, the little at a time, are found good in fevers — administered cold when a regret of the bilious prevails, and warm in topical inflammatory fevers — oil, milk, and acidulated drinks held in the mouth tend to remove the constriction of the salival glands that accompanies fevers; all acid drinks, bad in inflammatory fevers, and consequently as the breast, — vegetable acids injurious in nervous fevers, as they tend to debilitate the stomach. The cause of the great thirst prevailing in Surgeries is owing to diminished secretions, constriction of the salival glands, and the laxatives used in their compl. the better entire abstinence from drink has been known to cure the disease ~~[illegible]~~ — acids bad in intermittents, good in putrid fevers — condiments on their parts of our food, which render it more agreeable, prevent flatulencies, and consequently good in vegetable diet, & bad in animal —

6 Pt. Dr. Salt

Immediate.

Salt, sugar, pepper —

Salt is not only the most useful condiment, but is perhaps a medicine. Salt deserves to be used, perhaps, in all cases, in carnivorous animals. Salt alone seems manner of action. Seeds are depended from the net. and not determined by salt. Tapeworms are particularly distressed by it and tinctures should be used immediately after its use in tapeworms. In stomachics the great use of salt is exemplified in bile cases. Two drachms taken in two ounces, or as much as the stomach will bear in the mode of administering. Warm and gentle purging with Sal Glauber should be used to attend it. Vinegar is that part of condiment intended to stimulate the stomach, and correct putrescencies. Pepper the better, and good with vegetables. Pepper is good, in fact for its utility. It is in some instances

Preferable to fruit, in not being liable to accumulation. Molasses wholesome in winter with flour & farinaceous, and indigestions sweets are rotten per as they are subject to the vinous, and acetous fermentation. Sugar is usefull to the teeth from its antiseptic qualities. Diseases of teeth chiefly arise from the use of hot & relaxing aliment, the often rheumatic. Indigestion producing flatulences & great relaxation causes decay'd teeth, & oftener found in the female, than the male sex.

Sugar is poisonous to worms; milk nourishes them. Since the use of sugar, coffee &c. a change of the mode of living taking place, nervous diseases have much more frequently prevailed. This alteration in diseases are looked upon for the better. The judicious should avoid sugars as it tends to pall the intellects. Fine sugar is most wholesome which lime ~~omit~~ is no part of its composition. Pickles are hard of digestion, and are antiseptic ments & stimulating. Animal food. Fish requires only solution, and mixture, prevents flatulencies & is stimulating. Neither old, nor young animals are easy of digestion. The former putrefying in bulk, the latter gluten. Where there is most cellular the digestion is easiest.

dance fat animals easily afflicted, and diminishing, poor the reverse.

Fish stimulates more than are flesh. This kind of food, tho nourishing, is bad for a Sailor. Scalby emptiness is the consequence. Dysentery and Scurvy, the latter especially from salted fish -

Dec. 2nd Milk

Is that fluid of the body, which partakes animal & vegetable substances. It is composed of coagulable lymph & water & is essential the use in diet. The mammary vessels secrete it from the body, brought on by the compression of the epigastric arteries by the pregnant uterus, and supported by secretion: hence the sympathy between the epigastric & mammary vessels is accounted for. — Milk undergoes a decomposition in the stomach. It undergoes the acetous fermentation but not so liable to the lactous; it is only injurious in cases of acidity, predisposition much in the stomach.

finally be in intermittent owing to its refrigerating quality. Asses & human milk are nearly similar, the former, preferable for the difficulty of coagulation, & will not produce bitter. Cows, goats & sheep milk bear many affinities to one another. They are all the reverse of Asses & human, subject to acidities and easily coagulated. Human milk is little affected with medicine — the passions affect its most considerably. From the quantity of milk we determine its generation from angle alone. Hence its affections from Passion, as the stomach is always most sensible of mental diseases. Buttermilk & whey are both cooling and aperient; hence their use in recovering from inflammatory complaints, and in all hectic fevers. On the port, milk is very serviceable, wine is to accompany it the Venery & Wine are both to be avoided. In Poisons the Use of it is to be long continued. Goat's milk is little aperient and more glutinous, from hence its good qualities in dysenteric complaints are seen. Cow boiled in it will increase its glutinous qualities. Scrofulas, Cancers, & ren. Cases, are much relieved by a milk regimen.

We make some observations on the use of the Antiseptic Tonics, and offer proofs that the Patients stomach is to be employed in testing the nature of the

Ingredients

in the power of a tonic to counteract the putrescent tendency of the fluids — Vegetable astringents mixed with iron are turned black — The action of astringents are on the skin, mucous or mucous membranes, and their main effects on the stomach & Bowels, the other parts of the system are acted upon only by the communications of the mucous fibres. Opium has no effect on the simple fibre, but acts similar to the astringents on the fibre vivo —

The use of astringents must be regulated by knowing perfectly from whence the complaints, or symptoms arise — They proceed from a debility in the system they are perfectly, or vice versa — They are beneficial in mucous affections, by their astringent & stimulating qualities, thereby producing a degree of inflammation.

promoting Suppuration, and strengthening the system. It is sometimes necessary, previous to the use of astringents, to make evacuations, but with these things expedient, must be directed by the Perscriber. ——— Rules for the use of astringents further considered —

Astringents are not only indicated in Diarrhoea, when arising from a debilitated system accompanied with external frigidity and moderate sweat, tho' they are improper when the complaint owing to a scirrhous liver, and bad in all cystic dropsies — Astringents are beneficial in Diarrhoea, and dysenteries, first making the necessary evacuations, and their continuance if owing to acrity. Diarrhoea commonly proceeds from a hepatic dysenteries from putrid exhalations in general astringents in the latter case are a dysentery, tho' more be well found — Astringents in the first case, are least indicated some gentle cathartic, and not then proper to be used if the bowels are inflamed, or ulcerated ———

The Urea should be cautiously tried, and especially if of long standing. - The old Women, & those that have borne several children are more liable to be attacked with it, than young. Astringents are seen to have different effects, ~~according~~ to the peculiar habit of body —

The Use of astringents either by injection or internally ought to be cautiously, and sparingly used. but a careful examination of the symptoms is to direct their Use, as well in this disorder, as in others — They are good in a Gleet owing to Debility, and is much assisted by a nourishing Diet, & gentle exercise.

The Urea Urea is useful in calculous complaints, and the effect produced by all astringents is from their astringency — As the good effects of astringents in inflammations, see Debility —

The general cause of inflammations is an increase action of the Vessels, & too rich blood, the latter ~~which~~ is occasioned by an increased circulation and Debility. Inflammation is owing to Debility

the use of astringents is proper — In Inflammations of the eye proceeding from an increased action, of the capillary — antiphlogistics must, precede the use of astringents.

Astringents are of two kinds, fossil, & vegetable — the use of both and attributes of them prove beneficial except the acid is prevalent in the stomach, as in Bilious, instead of strengthening an astringent is antiseptic quality, they are the reverse — for which reason are improper in dysenteries — Among the fossil astringents claims our particular attention — as it may be given internally, or externally applied — it is good in ophthalmias, affected gums, angina &c. when proceeding from debility — when their causes are the reverse, the antiphlogistic treatment is to be pursued — Alum to be given internally, as well, and with Dep. Dracon of Opium. —

Allum in this form may be given with opium in the Colica pictonum, in fluor albus, & Dysenteries if proceeding from debility — prov'd usefull in intermittents, join'd with aromatics —

The dose of Allum from five to fifteen grains either join'd with Conf. Drac. or Conserv. rosar. sometimes it is expedient to join opium. Allum considered as possess'd of astringent, and [illegible] [illegible] [illegible]tion —

[illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible] soluble in water and in some saline substances. [illegible] the muriatic acid this most powerfull [illegible] [illegible] [illegible] a very stimulating purgative & diuretic [illegible] occasions [illegible] in dropsies. [illegible] [illegible] is not equal to the recommendations of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. A case of epilepsy was cured in the infirmary at Edinburgh by the cuprum ammoniacum.

It was given in doses of 1 grain every nights without effect. The dose was increased to five grains, which was continued for two weeks every other nights, and performed a complete cure — The action of this medicine as well as the nature of the disease is very unaccountable.

Even Venereal may be used in mercurial fevers, accompanied with a debilitated tendinum, when the common prescription fail. Com. Dr. gives 1 grain to one ounce to prevent the return of intermittents. In Germany the Hydrophobia has been cured by the sciopes of opium given freely previous to the bite recommended. Mercurial ointment for inveterate syphilitic Ulcers, skin of fire, have given relief in Ulcers of the throat. Nitric Acid long used in the Ulcers that accompany the pox. Iron is soluble in acids, can be combined with all saline substances. Heating iron red hot and quenching it in water, forms a black powder much more vulnerable than giving it in substance.

All preparations of iron have similar virtues. Lemery's Sinct. Martis is the best preparation for general use. The sediment here renders the dose uncertain — This metal is pure in an astringent. Hence always usefull in laxity and debility — All obstructions owing to these causes require its use. Chemical waters are the most effectively usefull of any preparations of iron. In ~~[illegible]~~ Hysterics Dr. Cullen uses a preparation of iron with magnesia. An infusion of iron with acids, wine, or cyder is often usefull; Sp. tr. Sic —

Hysteric, and typus hondriacus diseases are widely different — The first proceeding from laxity, and is frequently ~~[illegible]~~ in warm climates the latter from rigidity, common to cold. They are sometimes detected in the same person. In which case iron may be usefull but must be cautiously given. Iron is hospitably joined with bitters, and accomodates in heat & laxity.

Chronic, produced by an obstruction of the menses arising from debility is relieved by the use of iron. Carbonates are necessary in all complaints of relaxation especially if in some obstruction — the use of iron is indispensable in all cases of putrescency, or fibres. Preparations of iron are bad in all bilious complaints, or ulcers of the viscera, and if used in the latter, ought to be in solution — for this purpose Sal. Mart. gr. v may be dissolved in 2 ounces of water.

Dec. 6th

Corrosive sublimate or Iron

Sal. Mart. the best preparation for that purpose. given from 2 grains to 5 at a dose mixt in molasses altho: it is slow in its operation, then mercury yet by its strengthening quality as well as anthelmintic, gives tone to the stomach and prevents a future generation. Them are on account of which it is much preferable — very good in relaxed stomach and in complaints arising therefrom.

In these complaints it is well to add to the Tonic &
Cal. Mort. (2 grains of some Sali. cart. & Sulph. Kali.)
— lead considered.

This mixture joined with strong Sulphuric
ether alone: rendered active when combined with
good wine Vinegar, as in the preparation of the Acet.
Lithar. — Bougies made out of the Acet. Litharg.
and beeswax are good, when the Urethra has venereal
affection is troubled with caruncles, and of not long
standing; in venereal ulcers of the feet —
cal. is an ingredient with a small quantity
of Sponge of the Acet. Litharg. and one of Sienna,
rubbed up with a quart of water, form what
call the Aq. Lit. mix. in preparation is
more very Useful in st. inflammations, and if
~~the~~ arising from Scrofula — good in Deafness, and
complaints of the ears. Contusions strains, dislocations
&c. Poultices made with it very good in
the beginning of a paronychia also in the Piles
and Hernia scrotalis and in ~~the~~ must be applied
cold.

Epidemic. Fever, not a disease of fevers, but the accident of the same, must be so. — Yet it has not been found necessary in Legislation — preventive measures. Medical profession. which, alone has been thought fit, since the last ~~[illegible]~~ pestilence, and determined to give it an end, in Jamaica; seven attended with imperfect cond. and delirium — I was admonished interrupted, it would be with the reputed caution, and when the common prescription has failed.

Lead is the most frequent cause of disease on the colica pictonum — painters, hair dyers and all laborers in lead are the often afflicted in this disease, all have only the virtues, preventive their employment, but have been also beneficial in the case — the caution and claims the earliest notice — and ~~[illegible]~~ both internal and by epistaxis — flowers of zinc with water, and in ~~[illegible]~~ cutaneous ointments also in the form —

Dis^r 8th Town of Lane.

Had little accompanied in convulsions epileptics, though spasmodic convulsive coughs &c. Occur from 1 year to 12 in the case — it is prudent to begin with small doses, which may be repeated every half hour or hour but no more. Strychnine has its effects in general, and only once was successful, in a case of puerperal convulsions — but those which he practised had taken the common prescriptions before, and pronounced to be incurable — in fact it must be owing to the different causes of the convulsions — In an epileptic often times is owing to a wrong formation of the brain, tumors of the brain, elevations of bone in the ventricles — external injuries of the cranium or the arteries within the cranium — sometimes it arises in without the head, and is also dependent on too great irritability of the system, easily affected by agitations of the mind. It is sometimes periodical. It generally appears before puberty, and the arrival of this stage of life is the

with critical period for its removal.

Flowers of Zinc are astringent & sedative. Dr. Cullen cured a child of fits with iron, and magnesia & pot: all: salt. tart. & saturat., washed well with warm water, and dry the powder for use. begin with ½ grain bis die. increase to eight.

Water is a transparent insipid, and soft inflammable body. Its fluidity is promoted, and kept up by contained air. It is divided into simple & mineral. Water enters all substances except Metals. Its qualities are judged of by weight & mixture. Common water is best tried by sol. of fixed alkali, silver, or sacch. Saturni. The more air water contains, it proves the stronger menstruum. Rain Water is the purest of all simple waters. Mineral waters are divided into four heads. Saline, metallic, inflammable & earthy. Saline bodies are all soluble in Water. ~~Only the~~ vitriolic & muriatic acid is contained in earth, whereby water can be impregnated. Volat. alkali is never found in mineral waters. Fixed alkali almost always – Glauber, and common salt is only contained in Water.

Magnesia & Vitriol acid combined are often mistaken for those two salts. Mineral waters are impregnated with inflammable substances. Sulphur & Naphtha may be combined to water by an alkali. Sulphur with alkali joined with water produce the hepar sulphur. Iron is the most frequently contained in water of any metallic substance. Copper is seldom contained in Water. An iron rod put in water containing copper, produces a decomposition. Lime is never contained with water.

Waters are impregnated with various matter. This shows from their sediments. Calcareous earths with oxalic acid forms selenites. Waters are divided into acid and thermo. Thermo are in their nature unacountable. Mineral Waters are hard to analyze. There are rules necessary to be observed in examining them best at the spring, for air changes its nature, with several other of the common forms. Dr Rutherford's most approved method is an empty phial three inches round the mouth as a bottle filled with

mineral water, when the parts with which the water is impregnated, will fly into the bladder. Several other experiments were referred to which are now unnecessary to be noticed here.

The Virtues and Uses of mineral waters are various & unique. Simple cold water was deemed by the Ancients a fever. The effects are stimulating and diaphoretic. It greatly aids digestion & promotes the excretions. All these Virtues are contained in mineral waters besides those of their contained substances. Springs should be carefully examined before their use is directed. Vegetable astringents differ from Gold in their lower specific gravity. They are most efficacious in substance. Mixture would render them uncertain in their operation. Medicated Cordials, Tinctures & Steel medicines are not, since the substances, more hindered in the same particular effects.

Gingerpop makes a valuable & useful infusion for constant use in general indisposition. It is cool in the tooth ache & fever adverse.

Because we repeat in these different separations
formerly the is necessary amongst the text.
separately affirmative. Before we back waiting
into the intermediate. The operation after
mentioned abolishing. The leaves last in infusion
for this purpose ~~[illegible]~~ the positions of method are
commended
1. Take from ol. Rj. eq. part Rij
maceratè for 24 hours and reserve for use
the infusions are formed from experiments that
be best — 2. Infuse. aromatic reserve the 24
hours. Better from its astringent qualities
in gums & prevents the decay of teeth —
if chewed constantly it gives the teeth an ivory
whiteness —
— saliva is a great to retain
mucous sea of the skin — hence the infusion
increases the flow. It is good in worms &
foul ulcers — The exclusion is an irritant.
with an acrimonious quality if administered
it promotes the secretions. The flow of the mouth
be perpetuate, and continued for a long time —

Decr. 10th — Ferns.

Gilpinas. is recommended for the cure of tape worms: the root is to be used — Dose of the Pulv. ad ℥ss.

Maiden hair —

It's virtues are supposed to be pectoral, if it has any, it must proceed from its astringency —

1 Cup Moss.

It is a simple astringent without taste, has been recommended in the Chincough — This complaint is often not known; for the catarrh is sometimes taken for it — it may be distinguished by the following symptoms — It is epidemical, and contagious, a person will have it but once — sometimes it comes on with a fever the cough is dry about the 12th day an expectoration of yellow sputum appears — at this time the symptoms will continue, until a vomiting is produced, which tends to relieve it for if that is not effected, the symptoms soon return. Dr Rush's treatment is this — if a plethora prevails, let bleed afterwards give gentle emetics — and if not sent relief, gives antispasmodics, such as Camph,

Mack &c. for he conceives it a specific medicine — The Use of the cup most he recommends.

A change of air frequently, proves beneficial

Acid Fruits, is not a little to remarkable as sweet, and is proper in Dissenteries — Tuna, mulberry and Sloes are good in Dys. when astringents are necessary — acid fruits check accidents — they are beneficial in angina, made into a gargle —

Barbados Cherry

The juice, or made into a syrup is recommended in Fevers accompanied with Diarrhea & in Dys. & Diseases tending to putrescency —

Hyoscismus, or hyoscyath —

The medical Virtues if any, but negative —

Sura Japonica.

Is the inspissated juice from the Palm tree with quick lime, no smell, but an agreeable taste — useful in Diarrh & Dys. Mixed in both powders — when taken internally dose a Dram to one Dram — it is one of the strongest bon astringents

Sanguis Draconis

It not being soluble in our fluids it's only use, is join with allum in making the Pulv. Ægypt.

Hypericum or St John's Wort.

Powerfull Diuretic – tho seldom used –

Ammachium.

This is recommended in the Chronic Dys. Dose 1 Dram night & morning. Dysenteries are to be treated variously; acute Dys. require repetitive purgs with anodynes at night – compound of Opium with spec. Pil. Emet. In chronic Dys. great care is to be paid to restoring perspiration, and the best evacuants is the Rhub. with calomel, joind in small Doses.

Santalo or Santane.

It is a weak astringent decoction of the roots good in evacuations of blood – Decoction of the leaves usefull in fluor alb. – Table spoonfull of the expressed juice night & morning is beneficial in consumptions. It is recommended in the bites of venomous serpents given internally, and external applications.

Sweating in this affection is very usefull in preventing the absorption of the venom — sucking of the wound, sometimes prove effectual.

Solomon's Seal.

His good in haemorrhoids. The leaves are poisonous — root mucilaginous — The root is half an ounce boiled in a pint of milk & taken at bedtime. Haemorrhoids sometimes proceed from obstruction of the sanguiferous vessels of the rectum & air in them debility, moderate astringents & mucilaginous, & from bitters & aperitives.

Horse-Leek

Prepare an astringent with a mucilaginous quality — recommended in dys. rite in a fluxes — it is a cooling nature, found beneficial in burns, takes off inflammation — dose in the dys — 2 ounces of the juice

Nettles — An Infusion of the leaves, good in consumptions, and of the root, in haemoptises.

Mistletoe Found for the cure of epilepsies. Gt one twice day, a dose —

Decr. 11th Frankly very dear

Decr. 12th Ulva Ulva.

This is a specimen of Arbutus Uva Ursi recommended in calculous cases of the Urinary passages — Dose ½ dram head said his die, and increased to ten Dec. with an anodyne hocte, or when the pains are violent and scarcely tolerable —

Dr. Fuller is at a loss to determine as to its virtues in calculous concretions, as he tried it three cases without success. The Dr. is of opinion that the pains attending the complaint is frequently owing to a general state of the system arising from an affection of the liver or glands of the intestines or Debility and that all remonstrances against the bowels a tendency in general to the second cause —

Con. Granat. Pomei

Astringents usefull in the hæmorrhagic or secondary Uterine affections of either sort. Con. Amarabi.

Very weak astringents glass, recommended in chronic Dyo. accidents as a dessert.

Dose 2 drams to 2 ℔ of water divided into 4 doses.

Sp. Compositions.

Weak astringents and seldom used in Use.

Galls.

Strong astringents and those that prove from the tanner's the acid, due to the slid- good in topical relaxations, as hard cold. United with Sent. harcoid intermittents, where the Bark never is required.

Fungus Mineralis.

recommended in hæmorrhages. Dose from 1 to 2 drams repeated till the desired effect is obtained.

Acids. Astringents —

The Vegetable and fossil differ the 1st readily to fermentation the latter undergoing no alteration. The native and fermented are differ as the native undergoes the acetic fermentation. The mineral acids are stronger astringents, greater stimulants and promoters of the secretions, and where hæmorrhages require to be quickly stopped, they are found best. Diuretic wines are liable to the acetic fermentation and answer as drinks in dyspepsias, as they prove laxative — Bitters may act as astringents by their stimulative qualities.

Sedatives may prove sometimes astringents, if improperly united with astringents in cases of spasm.

Balsamics

often act as astringents by their stimulating quality — in large doses, more cathartic.

Exsiccants.

They are no more than absorbents — oatmeal is one of the first, and sometimes useful in superficial Cases, laid on a cloth, and applied to the affected parts — Dr Rush considers the Complaint seated in the rete Mucosum, and is of opinion it's cure is best effected by internal medicines, and disapproves all repellents outward applications —

The Dr finished his lecture with some observations on astringents, their Uses and when improper to be used — also observed the necessity before prescribing, in any Case whatever, of duly investigate into the Complaint, considering the patient's peculiar habit of body, and to be thoroughly acquainted with the cause, symptoms &c. In Peripneumonies, different treatment is necessary. In old and debilitated persons affected with it, astringents are found useful, as it proceeded from relaxation —

Dec. 13th Hæmorrhages

Hæmorrhage is an evacuation of pure blood from the body — Hæmorrhages are divided into active and passive, denoted by extraordinary, natural, preternatural.

Different hæmorrhages are classed under the following — a discharge of blood from the lungs, spit or discharge from the nose — Hæmatemesis, or discharge from the stomach, Hæmaturia, or discharge from the kidneys, Menorrhagia, from the Uterus, & hæmorrhoids from the Anus.

Persons of sanguine complexion are most liable to hæmorrhages: Children affected with Tunica capitis are afterwards liable to hæmorrhage from the age of 18 to 35 hæmoptoes are most prevalent. Women are more subject to hæmatemesis than men, it commonly happens at an advanced age. The epistaxis is more, besides before puberty, as the blood is at that age has the greatest tendency to the head. The menstrua is the least frequent. It happens to the aged, about 60, or while in their grand climacteric

This is produced from suppressed perspiration
Hæmorrhoids either happen from plethora, or partial
stimulus. Women during pregnancy are subject
to flux. Symptoms preceding hæmorr. are
sudden, severe. Antecedent causes are violent
passions of mind, or body. Stimulating aliments
or heat. Plethoral are often partial. Partial
hæmorrhages are produced from partial plethora
or debility. Partial stimulus will produce
same ~~hæmorr~~ or some contraries or deadlies.
Coagulants or habitations in pregnant women
will produce hæmorrh. or abortion.

The fluids, due cause destroying a due equili-
brium tender to produce hæmorrh. as obstructions
in the lungs, infarctions of the liver, spleen
limbs. Dysmenorrh. of old Ulcers or habitual
Drains often affect their discharge.

Chap. 15th Spasmodic constriction
This often causes hæmorrhage; Spasms of
the extremities are induced by cold and moisture
Periodical returns of hæmorrhages are unac-
countable, as well as hebdomadal habits from

Chapter &c.

Proximate causes of hæmorrhage are, increased impetus of circulation independent of other causes, particular plethora. Cause of symptoms from, in certain plethora is accounted for only by conjecture. Cure: In this we are to adapt particular cures. Hæmorrhagy depends on the area, seats in the area. First to diminish the action of the coat and arteries. This is best effected by bleeding, low, and cooling diet, cold water with acids, in medicine diaphoretics with opium. Secondly contraction to the ruptured vessels. This is done by the most of strengthening ~~natural~~ ligatures, thirdly to excite a retrograde direction on this head is fully mentioned in a some lecture. Speaches of lancications often prove more serviceable in hæmorrhagies than Sensitive Plasters are excellent in their antispasmodic virtues, and causing derivation to the part, to which they

in phthisis. An injection of cold water, or an infusion of oak bark has been found useful in hæmorrhages of the bowels.

Emollients. Under these, we class, water, oil, and mucilages. Under the first thermæ or warm baths were considered. Thermæ are always not extensively useful in warm climates. Their effects are entirely produced from heat & moisture. Moisture dissolves the mucus over the skin, opens the pores, and destroys irritability & accumulation. The effects of warm baths is not confined to the surface. Nervous sensibility is increased, & permits certain stimulus. If moisture is taken up by the skin, relaxes, and dilates the capillaries. By this it lessens difficulty of swallowing, promotes the secretions. The heat of the bath should never be under 90 degs of Farenheits thermometer nor above 112. If long continued, rose, stimulating. Rheumatisms are often aggravated from warm baths inducing relaxation & debility.

Oct 16th Rheuma continued —

After proving the Utility of warm bathing from their power in removing morbid matter from their relaxing & invigorating virtues, we come next to consider their Use in Disease —

Dysenteries & diarrhoeas are always relieved from determining the perspiration to the surface, — Cholics. Lues Ven. Herpes benefited by the warm bath. Hiccough the most powerful perspirative in nature. Hydrophobia, Hemiplegia are benefited by this remedy. Chronic Rheumatisms are often cured. Venereal relaxation is produced from encouraging an influx of the nervous power —

Contraindications to cold — or dry cutaneous retention — warm bath. Hence its extensive general use in warm countries. The Blues — warm bath, the general use yet confined to Gentlemen. The Eye is injured by the. all inflammatory diseases proceeding from tumefaction — injured by it.

Cold, indiscriminate comp. into require

in warm bath. Hysteric, & hypochon. complaints
from spasm in the alimentary canal, are
benefited by the warm bath. Dil spasmodic &
nervous diseases, delirium & other tendency
require the bath. In short every complaint
arising from obstructed circulation. Patients
ed with spasm, rigidity relieved by the use of the
warm bath —

Heat joined with moisture
is powerfully emollient, & anodyne. This often
relieves restlessness, & where opiates fail. hence
the great effects of fediluvium in many
instances. In low cases where the patient
cannot bear to be removed, fomentations are
answer the end of fediluvium. Care must
be taken that the bed cloaths are not wet.
woolen cloth answer best, for the use
of fomentations —

Fediluvium acts by revulsion, somewhat stimulating as well as relaxing — Hir good in the small pox, if not continued too long. Helps the menstrual discharge

and pulmonal plethora — promoting ~~the~~ free perspiration ~~free~~ in the lower extremities moves of the greatest importance in life — A gentleman of the faculty in Europe ~~baffled~~ whose case of an affection of the head, baffled ~~the~~ the physicians in Edinburgh & London was cured by the following effectual. he had some bay salt perfectly dry'd & powdered. — It was then quilted in a piece of linnen, and worn on the soles of his feet. The consequence was a perfect restoration of health, by determining ~~the~~ a greater circulation to the parts which were almost deserted — The Cloth must be sprinkled with Vinegar before application. ———

Warm bath not only delutes, but nourishes. Instances have been of patients kept alive by bathing & warm Broths &c. of seamen relieved from thirst by submerging in salt water — their lives in consequence preserved ———

the heat which the human body has lately been discovered to bear is 236 degrees of F. Thermometer. This wonderful discovery has changed the old mode of reasoning on these subjects —

Emollients are those applications, which by absorption produce relaxation, and diminish tension —

Rad. altheæ relieves chronic dysenteries, nephritic complaints &c. The proportion in preparing it is ℥j to lb ij of water — The root boiled in red wine is a most excellent dentifrice — Cem. Lini possess similar virtues. The oil of linseed is less subject to rancidity than other oils. The meal is good for maturating cataplasms — In the bread of Mich Poultice (one of the best kind), a little oil is requisite to prevent hardness —

Chap. 1st. Stimulants

are such substances as operate action on the animal fabric, when we immediate bodies. Stimulants are divided into mechanical & chemical. — The first act on some part of the system in a particular manner, confined to the nervous system, which naturally leads to some consideration on that wonderfull fabric.

By the celebrated Dr Monro of Edinburgh we are assured that the brain, contained from the brain, and surrounds every nerve from its origin to its extremities, active in the same manner towards the action of the fascia tenuis to the bones — By the researches of the same author we are taught that the nervous & vascular system are mean, connected, inter mixtamore, & gangliers which are attended with so great officiates are so disposed to communicate with each other, & form different combinations, & increase one

inflammation are likely to produce partial affections resembling the commencement of every fever to the sensorium commune — Hence nervous hysteria. Cases fitted to add with attention. Stimulants are always improper where the vital is deficient, or atonic prevails — in judging of functions comprehensive in Palsies & hopeless may to inertia. In cerebral apoplexies secondarily low & cold are best. Stimulants at a distance from the part affected in this case are proper. Headaches from nervous affections. Hysteria & typ. affections from debility, and cannot be cured in them. In too great actions of the heart always injurious — & long continued distroys the tone of the system —

Critical Stimulants —

Pulse or brain, or inconsiderable in its virtues for a week time are, odours in ammonia. Lavendula, or Lavender, are in a weak in effects — Spirit in liquor debilitate

Rhoeum — promotes expectoration — a good
~~fom.~~ Pantophagmodic — Hyssop & Eucalyptus
spell flatulences promote the Menstrual
interum. ~~Aff.~~ Fum. In high fever & be recorded.
Mint. c which the peppermint is best.
Stomachic & carminat. recommended in hiccup
Vomiting — Use freely in promoting Menstr. dis-
~~large~~ charge & be used vice Eucalyptus —
vice, or age is a frequent Diff. Viscera
dovieset infused in spirits for nephr. incontr.
Its more power still than bacon only use full
in languor Debilitey — good against abortions.

Carminatives — Asafoetida, the
root answer the best — powerfully stimulant carm-
inative. The Seeds of Dill & Fennel be
still in flat. & gripes, and especially for
children — They are the best carminatives.
Daucus Pulvertris is not a carminative. Its
inte Pharm. Virtues have ascribed that Virtue
to it

Liquorice

Under this head we reckon Mustard, Horse radish &c. — Genuine Mustard in all cases of inertia and in cancers, repeat the pine with accessitants — Jam. Sanctus relieves Paralysis. A table spoonfull of the seed unbruised taken twice a day is often useful in these affections. In powder it acts as an emetic. Quantities of a pint are seldom found to make in this way. Mustard whey relieves Hydrothorax, and is very good in the last stages of the Nerv. Fever. Vinegars are never to be substituted for bitters but in cases of languor. Horse radish is a diuretic stimulant. Syrup relieves coughs & hoarseness. Bulbi & Onions &c. are anacrous — fire destroys their Vim. &c. Garlic &c. good in catarrhal complaints arising from diminution of secretion — Garlic must be swallowed whole at night & morning — it tends to promote perspiration — Horse radish with mustard made into whey is a good drink in Hydropic cases*

Order Sth Coniferæ —

Under these are ranked the Fir, pine, Juniper, all of which are similar in, & the turpentine they contain, resinous, & also of a bitter. Cathartic properties & are generally considered stimulant, these are naturally tender, resinous substances, the bin. these in fact form a protected perspiration when the fluids are not affected. These are and in general in inferior in hot & dry climates, & are naturally flexible & weaker in their effects, yet it will dissolve by water —

Juniper wood and berries taken in infusion in their respective plates, disorders the stomach & bowels. In sea, lam mentioned it is bad, but fermented & fermented. In Pitch-tors cinnamon they are good, & have in dropsies — Tea made of Juniper is a good stimulant. Gravel obliged in diseases. But in all diseases unpleasant they are given by their stimulus.

Balsams, are divided into native and artificial, liquid and dry. They resist putrefaction. They are believed not narcotic. Benzoin. Copaiba: has been highly recommended in gleet. Humph attributes the effects only by stimulus. In large doses it proves cathartic. Hiera sacra cathartic, the effects on the bowels are supposed from its particular stimulus to the parts. Its action is manifested among the first per. - gleet. If long continued it will cure the gleet, when given well, the medicine is become more effectual. Noted in all a. times, 2 complicants of the bowels there is the least degree of inflammation. Combined with Ant. Tart. it said to relieve Pituita fugitiva. Bals. Peru recommended in colica pectinum in doses from 30 to 40 grs. remedies the scaly lot. cis fugitiva. Podic pituitous animal.

Bals. Tolu is analogous to the Peru in alternative respiratory in Glysters.

Terebinthina is recommended in Sciatica. In Costiveness from Sperm it is useful with the yolk of an egg Via Glysters — Gum. Guaiac like the balsams more convenient in administration. Its use in Restrictive Chronic Rheumatism & Arthritis are benefited by its use as in all Stimulants, inflammation is to be guarded against. Two drams of the powder with 3 ounces of a proper menstruum & a few grains of Tartr. emet. form an elegant & acceptable way of using it.

Myrrh. is an exudation from vegetable substance — collected like honey by insects, found in hollow trees — In large quantities it is stimulant. It affects in purgative, & in menstrual obstructions are of little consequence. Gum. Benj. to be taken from 15 to 20 grains for a dose. supposed to be pectoral.

Sep. Guaiac. little consequence in Medicine. Sarsapar is best in infusion. If long continued proves serviceable in Cachexy —

Sarsaparilla combined with Guaiac powder in Chronic Lues Ven. — Lisbon Diet drink made of Fir, or pine tops preferable —

Mezereon, or Spurge laurel, comes nearest to the Lisbon diet drink. It has received venereal victories, the formula as follows

℞ Cort. Mezereon, Glycirhiz. aa ℥ij Aq. font. ℔ij coq ad ℔ij & be taken ad libitum.

Contrayerva, of no consequence —

Aromatics — Cinnamon, grows in the torrid Z. e. It is the first cordials. In all languors & debilities excellent. In oil it may be given from one drop upwards. It may be used in infusion. boiling increases its astringency. Flatulencies & gripings are relieved by it. — Cloves, are of a more acrid nature. The oil is a good odontalgic, where the tooth is hollow. Sweat in fashion is usefull in debilities &c. without fever — In Vomiting & hiccup where there is no inflammation they relieve when externally applyd — Nutmegs, grow on a tree in the East Indias like our hickory nuts, when fresh they are narcotic —

Mace possesses the same virtues as Nutmeg. astringent & sedative — pepper powder produces hiccup.

Dec. 19th Sept. Wed.

is an indigenous Plant. Its virtues consist in its stimulating, aromatic & antiseptic properties. It is always usefull in the decline of fevers. To be carefull used in the first stage & always injurious where there is any inflammat. symptoms. In autumnal fevers its effects are extremely usefull — the infusion is best. in this way it relieves the Nausea attending most fevers, and is some what stomachic. By experiments it is found powerfully antiseptic — ~~[illegible]~~ Ginseng, is of little efficacy. Used in China ~~[illegible]~~ a Masticatory. The production of this country equal to that from Tartary.

Cascarilla, is a astringent, stimulating & narcotic. It is best employed in Chronic Dysenteries — & hypochondriasis, this begins the class of bitters, it's usefull in worms owing to its tonic qualities. with Salt. of Tart. becomes a powerfull diuretic

and very beneficial in dropsies. If ever good in jaundice it must proceed from its bitterness supplying the want of bile —

Card: Benedict: a cold infusion may be used in the beginning of remittents, as it tends to promote all the Secretions. Chamomile, is a strong antiseptic. It makes an excellent tea & be used in Intermittents &c. which give from fever, good to work off a Vomit — if given too warm apt to purge — it is also usefull in checking the acet. of Vinous fermentations

Tanacetum, analogous to Wormwood.

Cort. Aurant. is stimulat. healing only good in languors. &c.

Centaurus minus & Gentian.

Infusion of Cent. is similar to that of Chamom.

Gentian combind with Cort. aurant institute a grateful, and pleasant Bitter.

The Bitters long continued tend to destroy the tone of the stomach & system.

Parts account for its action on the whole nervous system —

The ~~not~~ matter in question is whether Opium produces heat or cold in its action on the system. A Thermometer applied to the body during the operation of an anodyne ~~mat~~ the mercury was observed to fall. This in these circumstances may and will alter its effects.

All involuntary motions are owing to an affection of the nervous system, depending on a too great flow of the nervous power to some particular part, or to the whole body.

Opium upon being injected into the stomach intestines has decreased the motions of the heart. Its first action may be stimulant, and quicken the pulse, and afterwards proves sedative — or in some cases its whole effect is sedative. In spasmodic constrictions of the intestines it often acts cathartic

After its action, it always leaves the system in a more irritable state. Hence it's ill effects in all inflammations —

Dr. Opium continued.

When Opium is given, it generally increases the spirits, moderates the action of the pulse, increases the fullness of the pulse, alleviates pain, causes strength &c. sometimes excessive sleep. Dr. Pugin, in his interesting work, says, these general effects. These phenomena will ever be unaccountable till the sympathy between the nervous system & the lower extremities (Opium, particularly affects the lower extremities from the spinal connexion, these parts have with the nerves of the stomach. in some cases it will increase vomiting &c. hence the various and different effects, induced from Opium in different idiosyncracies — Caution should be shewn in its administration where these peculiar habits prevail —

small and repeated doses of Opium often deceive in producing the wished for effect. It is better to give a sufficient dose at once —

Pills of Opium are observed to answer from experience better being made sometimes than those which are fresh. In surgical operations, it takes off fear & pain from destroying sensibility. The fulness of the pulse in the action of Opium proceeds from its relaxing, inertness; hence an accumulation of blood in the larger organs. As all secretions, except secretion depends upon a proper tone of the vessels, opium diminishes the former, & always increases the latter. Useful in catarrhal effusions, as it takes off irritation & tends to inspissate the mucus. In acid effusions in the lungs &c. Opium useful — Costiveness is induced from Opium — diminishes the peristaltic motion of the intestines. Attends and prevents the ill effects of vitiated

Cuer

Bile from the same cause. From these causes it sometimes produces a suffocation of mind. The asphyxiation is due to the respiration, which will alleviate this. From the effects above recited we can account for the drowsiness, the nausea, flatulence, slowness of respiration, coldness of the breath & head &c. The veins of the head having few values & its vicinity to the heart, tends to increase the effects of Opium in that part, and the undigested masses in the lungs impede respiration. But the slowness of respiration, a common effect produced from Opium, is owing to a slower circulation. The diminution of force in the small vessels increases the fullness of the large. The apparent flatness of the face proceeds from the slowing of red globules into the minute vessels. In diseases of the heart, where Opium is indicated, squills should be generally joined with it. Opium inducing sleep is owing to the mind being perfectly quieted, hence desisting sending forth the nerve Power

Decr 29th Opium continued,

Use of opium in the cure of diseases — it is often given as a palliative, and acts by dulling sensibility — pain arises either from inflammatory distension or spasm or irritation — Pain caused by inflammation is increased by the use of Opium accumulates the blood and increases repletion — in deglutition or pain in the throat, opium joined with squills becomes invaluable. Opium joined with some simple bitter or tonic is useful in incrustations. Opium at a moderate rate after first dose. In the second case should be used in the decline of the convulsion — Inflammations are relieved by opium taken off from individuality. In the male positive useful immediate the patient bathe in warm water a the quantity of opium. In all violent spasm of the bowels comes free from inflammation, it is useful. A plaster in these cases should accompany its use to open the bowels. Bilious colics are often relieved by its use, bleeding &c. being premised — also cholera, previously using Barley water &c. In these instances

generally absorbs the operation, & entirely lessens
the tension & spasm. The bowels — in
spasms of the stomach it often acts as a palliative.
In spasms of the Uterus, which often accompany
menstrual periods, particularly in the case of
spasmodic pains called [illegible] & also, before
delivery, Opium given relief — In symptoms of
dentition with pain, it is to be used, but the narco-
tic, and its violent threatening symp. the latter
it be delivered — In gripping pains from inflam-
mation it is bad. In hysterics it is more to be attended
with emollients also. Effect of pregnant the cases
of opium are to be frequently repeated. Sinks
marsh mallows, will be beneficial —
Lock Jaw be. a most frequently induced from
tension of the nerves in the ethmoidal — the doses
of Opium in these cases are undetermined, they are to
be increased till some effects is produced — in amputa-
tions of the joints often saved the arm. Spasms
are divided into spasmodic & nervous — the former
cured by antispasmodics the latter by stimulants.
Opium used in the first of these cases should be joined
with emetics, or squills.

The spasmodic asthma is generally periodical.
Spasmodic and periodical Headaches are relieved by Opium but
emetics should be precludes used. and it is
well to join Opium with the Opium.

In all ulcerated excoriations Cancers &c. it is bene-
ficial, and especially when attended with pain.
It is intermittent before the paroxysm and after
the use of emetics. In some amputation complaints
at least where the Tracheae is affected it is
recommended. In neuralgia it sometimes
useful. and when properly used epileptic in
Diarrhoea & Dysentery. In catarrhs it is
frequently useful as it accompanying
symptoms in the membrane dangerous are ap-
pose, all and it to be attended with fever.
Hydrocele, in out incident. It is most be-
neficial in the beginning. the complaints
generally incident inflam. that predisposition
from spasm & constriction. It is good in
many ulcerations arising from an relaxation
owing to Debility but Cicatrice is bad in ulcer.

Dec. 30th. Opium continued.

In Venereal Diseases, accident has lately proved its great utility. In particular observations of Practice in the British Hospitals of New York have confirmed the Opinion — An Officer of the British Army desiring life from a venereal cause, took large quantities of Opium to ease his pains — The consequence was a perfect restoration to health. This circumstance gave rise to its use in the Hospitals where it has been attended with invariable success. The Opportunities which Dr. Rush has had of trying its efficacy in venereal cases warrants its utility. The common Dose, may be begun with: gradually increased to 12 grains, or more in the 24 hours — The Ulcers are to be washed with a watery solution of it — The best Opium comes from Egypt. It is the inspissated juice of the Poppy, exuding from an incision in their heads. It is best given in Solution. Opium and Mercury ~~dose~~ is first to be given and repeated in small doses, prior to the use of the

acids are the best correctors of opium. Hence the impropriety of combining acids with it in medicinal prescriptions — When a dangerous quantity is taken, vomits, of acrid glysters are necessary, with the stimulants, accompanied with the demulcents —

Cicuta, or Conium of Dr. Stork.

Cicuta aquatica is different this being the poison so much used by the ancients —

The Conium being so highly recommended in cancerous complaints naturally leads to an investigation of this disorder — Cancers are usually divided into 3 kinds, viz. Sensitive, scirrhous, fungous. The 1st is most common, extremely painful, and serious. It first takes the form of a gradually increasing tumor. The round is the most innocent, the cancerous proving very irritable of difficult of cure. In the beginning they are smooth, and moveable, but grow rough upon an increase of size and become fixt in the muscles

If

Pain continue small, indolent for many years. glandular ~~tumblings~~ affections are sometimes induced by them. They generally break about the size of an egg &c. and then discharge a thin acrid humour, sometimes bloody — Mercury irritates the complaint, & also mineral waters do injury — Emollients increase the irritation. In its first approach, pain, momentary pains are observed upon a change of weather, or the menstrual period. Those like a twine cord are now the most frequent. They are most dangerous on the upper part of the breast. Here the Cicuta is of no avail, but when they affect the axillary gland, then prove mortal. Cancers of the breast are frequently brought on by passions of the mind — The sympathy between the breast, & mind are very great and critically in lying in women — The affections of the mind and the irritability of they most cause a constriction of the Vessels, hence hindering, or stopping the aqueous part consequently

absorbed. the residuum becomes acrimonious by remaining, and the warmth of the part, at last ~~induces~~ produces the dire catastrophe, a Cancer. In the beginning it is local, and admits of extirpation, or escharotics — Guy's Powder is the best application extant. Great care is to be taken that none of the Cancer is left. This species of Cancer does not arise from any Cancerous matter in the blood, but upon acquiring acrimony contaminates the purest fluids within its reach.

Cancer Sensibilis originates from some internal affection, & is cured by the Conium.

(1) Cancer 3d. Cancer fungoides — usually happens in lusty fat habits especially in Women, beginning at the Genuines. It increases very fast in growth coming to maturity in 8 or 10 months. It is spongy, and grows to the size of a man's head or larger with bluish, or livid Ecchymosis. After it breaks, it resembles flesh liver. The Experiences

form its are hard, and globular. Discharge or matter very great. Hurt not confined to the breast, but general. Remedies in this case also ineffectual. Puppies applied to the nipples, and the cancer fungous & scirrous tumours, or the villous gland by their friction —

Toads are used in Europe. There we have just in a case by applied to the breast. In the of puppies, or toads is to be continued for weeks.

The pain the great, must be borne with fortitude. The violence of the tumours are known to abate, when the animals is not killed.

Scrofulous cancer, arises from a latent venereal affection frequently. The complaints is confined to axillary glands lying under the thorax of chest. They are jealous of a bad usage. When seated in the breast they often penetrate the thorax, and prove incurable. They are difficult to distinguish in the beginning. They are accompanied with small tumours, a bad habit of body, with little or no pain.

often than the previous. In the latter part of the growth they are of a bluish red and are often contracted. Alterative mercury must be continued a long time. They seldom rise from affections of the mind, but often from external accidents. Those that arise from a fullness of the vessels appear in hardness of form like a Scirrhus. — Hence the name Cancer — Some of the faces afford good pus, the colour of the face is yellow & inflated. Their way, appearing in places like worms — Indurated tumors appear in different places. Mercurial Plasters will often cure the complaint incipis. The indurated tumors are relieved by emollient applications such as Cow dung laid over the Plasters — Mercury taken internally is often effectual. It is in this species of Cancer, that alone, the Conium is useful. It should be used in form of extract made when the Plant is full grown. This taken from gr.ij to oj bis, vel ter de die —

The real cancer, or Cancer genuinus is always

[illegible]

[illegible] are peculiar to women of sedentary habits, and inactive habits. Tumors from coagulated ~~[illegible]~~ milk do not arise in cancerous natures unless joined with great affections of the mind, external injuries &c. Tumors from coagulated milk, scirrhus may be the either in this disposition or female to cancer may be much prevented by proper care in education. So much, then, tight lacing & indulging violent affections of the mind, should be avoided.

They should always, where health will admit of it, be suckled from their own children. Upon the first appearance of a scirrhus, it should be extirpated. This should be effectually done or success will not attend the operation. The humor of a cancer after acquiring acrimony is very infectious. Many instances of infection confirm this belief. Lips & faces of men are more generally affected with cancer than *

* Turn to page 42 — 14 leaves forward.

qd. Columb: is a strong, and pure bitter. Dr. Cullen
used it frequently with success. best in infu-
sion ℞ Rad. Columb: ℥ss. Aq. font. ℔ss — Dose
a table spoonfull every hour, more nata.
his formula a spirits weak and irritable pa-
tients — The Gentian. best succedaneum for it.
Port. Cortex. is best distinguished from bad
by its weight, brittleness, and shining appear-
ance when broke. In decoction it should
be red, and changing white on cooling,
and depositing a sediment —
It is astringent, stimulant, and aromatic. It is
always injurious in plethora, rigidity, or where
the least signs of inflammation, In obstr-
uction from debility, gangrenes, and all other
effects from this cause the Bark is highly
usefull. It is best given in intermit-
tent gangrenes, or cases of great danger, the dose
to be large, or as much as the patient
can bear on the stomach —

In Intermittent, and remittent fevers it acts on the nervous system, and never to be given until a determination of the fluids to the superficies is effected. Emetics, and anodynes are to precede the use of it — in the cold fit of intermit. nothing ought to be used, and during the hot fit acidulated drinks are proper — and the violent pain in the head attending them is relieved by covering it, and removing evacuations of the part — all periodical complaints arising from spasm, or debility are cured, removed by the Peruv. Bark.

In Gangrene proceeding from an increased action of the Vessels, where the use of the Bark would be improper, acids prove most beneficial —

Obser. 26th Cortex peruv. cont. always relieves intermit. remitt. fevers attended with a putrid diathesis. Is a powerfull antiseptic, & Tonic.

Its action is chiefly confined to the primæ viæ. From this we infer its great utility in preventing the progress of putridity, its being a good preservative. In the advance of putridity, it is best in decoction, or in infusion with wine, and the use of acid drinks, as these cause it to enter the circulation, thereby correcting the putrescence of the fluids.

A remarkable case was related of a gentleman's recovery from a great degree of putrescency, by glysters of bark, antiseptic fomentations to the parts of the body, with the use of drinks acidulated with the Vitriolic acid. Laudanum was joined to the glysters, that they might be the longer retained. The bark was used to the quantity of four ounces by glysters every 24 hours. In Malignant, Typhical fevers without an inflammatory diathesis, the use of the bark in infusion joined with acidulants is very beneficial. In all hæmorrhages from debility bark is usefull; periodical returns of hæmptoe from this cause are cured by the bark.

It should be used in small doses and long continued.
In marasmic habits it should be constantly chewed.
Inflammations of the throat proceeding from weakness are prevented by ~~[illegible]~~ chewing the bark.
In the small pox after the eruption is completed, bark is usefull in assisting the maturation of the pustules.
It only found necessary in this case when patient appears not capable.— In this as well as all other cases where inflammation or Cellitis attend, the use of the bark is exceedingly improper, and injurious — ~~[illegible]~~ are usefull in the secondary fever of the small pox — but the use of Cinchona generally improper, and most hazardous ~~[illegible]~~ result —
Scrofulous Ulcers attended with relaxation are assisted by the bark. These are often beyond the reach of art — ~~[illegible]~~ Ulcers in consumptions are improper, they being attended more, or less with inflammation.
In the Rickets it is very usefull accompanied by regimen and the use of the cold bath.
Cold bark, is greatly the best. This is the only from the common bark in being taken from old trees.

Rad: Quassiæ, is the production of Jamaica. It was first discovered by a negro from whom it derives its name. — This is a strong and bitter bitter by many thought superior to the Cort. Peruv. by being cause relaxed on the stomach — It is highly recommended in intermittents and malignant fevers — It may be used either in substance, or infusion — In substance a dose from 1 to 2 Drams —

Calamus, is astringent, and stimulant — more aromatic than Sack — It contains a portion of essential oil — It is used with prominent in Paralytic cases. Colics from indigestion & in cases joined Phlegm it is usefull. Combined with Ret it is a good corroborant, it stimulates

Cinnamomum, forms the basis of the Duke of Portland's famous powder — For the particulars of this powder, and the method of making use of it &c.

Vide Pulsation.

Many examples have proved the Gentleman's remedy to be fatal in its consequences. So that although it will certainly remove the gout yet so great an enervation is produced, that some matter affecting others are commonly an apoplexy — Cathartics, Bitters enervate the system. The extremities are the most natural and salutary parts for throwing off the gout. Bitters by their long use destroy the tone of the system, thereby preventing nature from expelling the gout to the extremities; by which it must be thrown on some vital parts producing some fatal consequence. From hence we infer, the cure of the gout, should always be radical, which can only be effected by exercise. A friend of mine the proximate cause of his illness the duck. His feet is most probably, in the nervous system. Milk Diet will often cure it in young Persons. —

Dandelion, Succory, endive, and lettuce. The two first are similar in their virtues. They are good in visceral obstructions. To be taken in large quantities. In hepatic affections a cold infusion of the express juice may be taken three times a day. In concretions they are also serviceable.

Indian Tuneffe, is an acid astringent. Vinegar destroys its effects. Fine leaves it eatable. It is diuretic & pectoral. When fresh its dose is from 3 X. to 20 grains. In this state it has cured intermittents. It is good where inertia or langor necessitates.

Imperatoria, is a great stimulant, mixed with hog's lard, it will cure ring worms. It is a good masticatory. Intermittents also it is given. Its best, perh. to be macerated in water. Taken ad libitum. The root is in more use at Water Flap, & their country professing similar virtues.

Wine, when too hearty, is hurtful. It disposes to the gout & stone from inactivation.

moderately warm, beneficial — In all fevers attended with languor, generous wines are usefull. In Scleroma, and inflammations of the eyes, from Debility, wines give relief. The proportion to be given, is to be regulated by the symptoms — well selected, they are most useful

Burgundy, Claret, Rhenish, &c. &c, in fevers of a putrid, or nervous tendency, also in the last stage of Inflam. fevers tending to putrescency &c. but Madeira, Port &c. best preventatives

Part 23. — Malt liquors, &c. are those drinks which are produced from the fermentation of farinaceous substances. They are more nutritious than other liquids, more active in the digestive fermentation. They are considerably more flatulent, prejudicial in debilitated habits, & Apoplectic cases. Animal stimulants.

Cantharides internally given are said to possess many good qualities. They are at least

a precarious remedy and never to be used when more certain remedies will do as well.

Millipedes, are too trifling to be given medicines.

Viper is an animal peculiar to Italy. Tis indeed said that it powers for medicinal use. But attle make a mistake it is neither merit the character of Medicines —

Immersion in cold water and cold bath are the very all stimulants in nature so that their use is need to be continued as they will infallibly enervate the system —

Cold bath, differs from other stimulants in always strengthening the system. Their necessarily stimulant action. This the general opinion of man. Respiration first discovered the difference of bathing, and cold bath in jaundice. The cold bath we are part led to the choice of water. Spring, or Pump water is generally kept from stagnating water possible some odiferous adherent to the skin simulates longer. The bath is not to be continued too long. A moderate warmth. The body is

[illegible] the warm bath is preferable in particular cases — the cold bath acts on the moving fibres contracts the capillaries and quickens the circulation and causes the blood to move more off to the system. It also acts perspiration and the muscular & vascular system.

Sect. 24th Consideration on the cold bath continued — Manner of Secretion.

In defining the general division of the system was observed that the vessels were more particularly sensible than any other, but that from sections of these organs the system was in their injury other, or impaired. It is here that we chiefly affected in the cold bath — chilling, convulsants are in many cases irritant effects. Cold baths induced or almost any other substance in a formal state or will, produce a similar effect in Debilitas from inanition. Debilitations have been great effects in new [illegible]

particular action. From these generalions we infer that any application which perceptibly affects the nervous system will produce similar effects. That there is a great connexion between the stomach & the skin has been undeniably proved. By sympathy with the superficies, must then the reaction occasioned by pouring on, rushing the superficies, acts as a considerable stimulant to the skin, the circulation of fluids impart tone to the relaxed vessels. In diseases attended with great debility too great irritability for administering medicine, tepid bandages applied to the whole body is singularly useful - An instance was produced of life being saved by this practice —

In treating the diseases which the cold bath relieves, we must have due respect to a rigid fibre - Hysterical diseases, are always aggravated by the cold bath, as these complaints are ever attended with debility —

hypochondriac diseases are injured by cold bath unless accompanied with hysteric symptoms. It relieves epilepsy in infants - Catalepsy has been cured by cold bath. One instance has occurred of paraplegia in a boy cured by the shower bath -

Mania has been cured by the deep plunge bath. This is the most powerful stimulant

In fact by the more accounting for its action we may deduce its utility in intermittent fevers &c. Chronic headaches have been cured by the cold bath when every thing else failed - In every species of chronic rheumatism it is beneficial - Gout has been cured by the cold bath. Gutta serena paralysis it is dangerous -

Cholera which bears a great affinity to the fever is benefited by cold bath. In accounting for its action here we must consider Cholera to be predisposing cause of cal. circumscriptions. The irritation increases laxity & hence we conclude the tonic effects of cold bath will assist nature

throwing off the complaint, & prevent further
secretion. In superficiens, wine
the sympathy between the kidneys & superficies
will confirm its use. It is pronounced useful
in chronic colics, repeat use by Celebities. Electry
also recorders from atonic wine, give warm the
cold bath. This ~~[illegible]~~ almost a
universal remedy, prevents sickness, regularly used,
and guards against indispositions proceeding from
sudden changes of weather.

Acids in children as well as adults. The pro-
ceeding from laxity, induces its application
in these complaints. Rickets are greatly bene-
fited by it. In consumptions & all dis-
charges from the lungs, & in all inflammations
& plethora, its use is highly improper.
Its use in Syphilitic consumptions has proceed'd
from the resemblance, Hyp. & consider with
Hyp. Diseases put on their first Stage to
this complaint.

"The utility in exanthemata is not sufficiently confirmed to admit of its use."

25th Dec. No lecture.

Dec. 26th Sedatives

These diminish the motion of the system, & produce torpor. The many medicines come under this class, yet only a few need be mentioned.

Opium is the greatest of sedatives. As a medicine it very extensive. In accounting for its operations many theories have been advanced. The idea of its acting on the blood particularly, & introducing Plethora from narcotics, is too improbable to be received. The best authorities, as well as experiments evince that its action is chiefly confined to the nervous system; as a very small quantity often produces immediate effects, & is too trifling to cause Plethora. The connection between the nerves of the stomach & the

upon other parts.

Venereal affections are often mistaken for Cancerous. Those of the breast are divided into 1st cutaneous purulent ulcers. 2nd Lymphatic, 3rd hard, extending to the ulcerous. The first commonly appears about the nipple skin accompanied by a redness in bubones, it is hard. — Lymphatic resembles the disease called Bronchocele consuming almost all the breast. They appear in small tumors ending in a bad well ulcer. These give way to Merc. cor. alb. gr iv to gj Lt Vin. The dressing to be moistened with this to be taken internally. Two cases related of this kind. The third species begins in the periosteum of the ribs. Venereal ulcers of the tonsils differ from mercurial in consistence. The best mode of distinguishing them is for the Dr. to. Mercury will destroy them. Cancers, the lips against which are hard and have tonsils elevated edges with superficial, sometimes horrid like Cockscomb. The venereal pustules

F

[illegible] a foul stomach. Their progress is rapid
the humour is their, & a their Cancer formed
the surface. If neglected may change into
cancer. As the line of distinction is so
hard to be drawn, the most decisive mode of
discovering real cancers is the following —
give all the fine with fine or bicarbonated
calomel, & then with a piece of leather shod
round the edges with sticking plaster laid
over the whole — If it be a cancer, the one
will be aggravated, & vice versa — Hemlock
chaybeater & mercurial cure cancer, useful
but will aggravate the other two.
Arsenic is the basis of the empirical pow-
ders used in this complaint — The use of any
of them will bring on paralytic & spasmodic
affections & particularly of the eyes —
Hence the impropriety of depending
on them. The knife is only to be depended
on for a radical cure. Flores martiales will
palliate the disease in its worst stage —

Tansy and Belladon, or Sol. Leth.

The roots & berries are most powerfull; they are narcotic, and irritating. They recommended by many for Cancers. A case was related, where a Decoction of the leaves was successfull. Another case, where the powder was successfull. First dose gr. ii. and encreased to xij. They always use full, where the Biccates will benefit, as in Scrofulones. The Genuines, and Fungous are only to be cured by topical remedies —

Hyoscyamus affects the Sensorium considerably, bringing on Paralysis. Leaves boiled in milk good for swellings of the legs &c. —

Dr Thahn has tried it with success in Dysentary abates pain in the Dysentery better than Opium in not producing Costiveness - it acts sometimes Diuretic. Their best in Extract —

Nicotiana, is insularly acrid, and Volatile, narcotic, & sedative. Smoking it, relieves habitual Costiveness. In Periodical Hemicrania

General, has done Service. The Smoak of it by Glyster relieves Colics, and Tympanies — Applyd externally with Vinegar it dispersates hard tumors of the Hypochond. Leg. Benjamin on Scurvy. In Malconditioned Ulcers it does Service. When intended for internal Use, it should be boiled till the Lees administred — In this manner it possesses pectoral Virtues — Lauro Cerasus, is a Sea of Coffee Thomas Boisson f ——

They differ in their effects. The 1st is sedative and narcotic, and injurious to tender Nerves. Coffee in the manner we use it, owes its Virtues to an unpyreumatic oil, which is antispasmodic, Sedative. It is hurtfull in Dyspepsias. Nervous Diseases prevail from the Use of these —

Crocus, or Saffron, His real medical Virtues are not known. Moderately given it raises the Spirits. From 3i to 3ss may be used for this purpose. His main use is antiemetic applyd to the Stomach Child it will stop Vomitings — also when given internally brings on fits of Laughter —

Antispasmodics, as in this case meant general. Under these we first rank fœtid Gums, which naturally leads to some observations on Hysteric diseases. These just on various forms, affecting the mind and body. They consist in the nervous System affecting chiefly the alimentary Canal. All Mankind are more, or less subject to it; but more especially the female sex. It is hereditary to some families. great affections of the mind tend to bring it on. Injudicious mentheations will have the same effect. It seldom appears with the same symptoms. Paralysis is sometimes brought on by the paroxysms. Some have their Intellects impaired, and some have continued so long dead to appearance as to be buried, afterwards coming to life.

Jany 8th —

Hysteria continued —

in some, this complaint is periodical with a spasmodic cough. It is frequently mistaken with hypochondriacal affections, melancholy, &c — many of its symptoms resemble these diseases. Hysterism acts chiefly in the decline of life. It is common to those of an irritable temperament, of sedentary habits, black of hair, &c. and comes on gradually. The Hysterical Ball never happens in it, but they are alike in some symptoms such as an affection of the Alimentary Canal, and distensions of wind — The Paroxysms of the Hyp. not so violent as those of the Hyst. the former having its attacks chiefly confined to the Alim. Canal. Few will convert the Hysteria into the Hypochondriacal Disease — This disease sometimes ends fatally. Danger is to be estimated from the violence of the Paroxysm &c. Indications of Cure depend on three points —

1st To guard against occasional causes, 2nd to mitigate & 3dly to avoid the predisposing causes, & give tone to the system — The occasional exciting causes are various, & some of short duration. In the Paroxy. when the attack is light no medicines are necessary. V. sect. is always to be used with caution. In local affections leeches or cupping glasses are best. In irritability nervous medicines are proper. In affections of the mind, only sedatives. The weakest remedies are first to be applied. During the Paroxysm external applications become necessary, such as stimulants volatiles, smoak of tobacco &c. — The more acute applications are to be tried last. In coldness of the countenance acid fumigations are injurious, and ought to be made use of with great caution. During the cure the principal indication is to corroborate the system against future attacks —

Habit this regimen must be scrupulously attended to. Plethora, and emptiness have to be equally avoided. Milk diet is preferable to best. Toast, and water with a little spirit or wine for common drink. Pure cold water is most unexceptionable. The air should be clear; and fine, hence the necessity of living in the Country. Cheerfull company, proper exercise, and comfortable Clothing are to be strictly attended to. Exercise is never proper on a full stomach — The mode is to be varied in exercise — Sea Voyages are very wholesome. Gentle emetics, & Cathartics may be premised before other medicines — Costiveness must be guarded against by a peculiar regimen — Among the Hysteria con Inanis the remedies used in this disease may be divided into three Classes Viz Sedatives, antispasmodics and Tonics —

The first are only palliative tho' sometimes more than radical, when used they should be given at intervals, and precede the giving of small doses. Tonics generally afford a radical cure — Opium is the grand of Sedatives. The bad effects proceeding from it are may be counteracted by regimen, & other medicines. Antispasmodics, Vol. Alkalies, fœtid gums, Musk, water Camphor, & other bear the first rank. Before the accession of the Paroxysm, any of these may be assisted by Sedatives and Cathartics. The chief intention throughout the disease is by astringents, & tonics. The advances of age decrease mobility, but accompanied by debility indicates astringents. In every case the judgement of the Physician should be his best guide. Bark & steel are the best astringents. In the use of these Cathartics should be used with the greatest caution — Bitters, acerb, & austere remedies, are useful if cautiously used ~~used~~. Chalybeate waters are of great importance. Cold bath is best used in the morning. In all these applications. Idiosyncrasies are to be

nicely attended to — Issues and Setons often be service
in some cases. Violent impressions on the mind some-
times prevent Epilepsy in hysterical complaints and vice versa. A
case was related of a patient in the Edinburgh Infir-
mary, who was cured of the epilepsy by the Physician
directing in her hearing, during the paroxysm, that
the next one should be cured by the application
of potions to her feet. Remedies upon the
whole are very uncertain, and ought to be assi-
sted by regimen, exercise & cold bath. Changes
of air & many accidental circumstances often prove
a certain cure — Assa fœtid. is antispasmo-
dic, stimulating, laxative, deobstruent,
diuretic; & expectorant ~~pill~~ dose 5 to 15 grains
Hyeilos its virtues to water, and is best given
in solution. In a solid state its virtues are
tedious in extraction — ℞ ℥ Assa fœt. ℥ss aq.
font. ℥viij. Cap. Aqui. coch. maj. pro re nata.
Hiuse full by Glyster with Cand. leg.
In Catar. hen Genetis assa fœtid. does wonders.
This Disease is peculiar to old age, owing

to obstructed perspiration, producing a reflux-
ion of humours on the breast. Hence the
great cough of old people in the morning.
Garlic is a good succedaneum for asafœtida.
These medicines from their strong disagreeable
odor prove anthelmintic. In expectorations
the mender asafœtida does service. The fresher
it is the better.

Gum: ammon: is a gentle, stimu-
lant & expectorant. Vol. Alkali is the most pow-
erfull of any in this class. It is greatly antispas-
modic & stimulating also antiseptic. In Ner-
vous fevers, putrid, fevers, & the last stage of
Inf. fevers it's use is highly serviceable.
It may be given in a bolus to the quantity of
five, or six grains every 2, or 3 hours, with Op.
or V. E. occasionally added. It acts sedative
on the sanguiferous, & stimulating on the ner-
vous system. In the wandering gout it is
good assisted by sinapisms to the feet &c.
In spasmodic complaints of the stomach &
bowels it gives great relief, combined with Op.

castor, combine with Asafœtid. it always un-
necessary. It may be used as a substitute from
gr. xv to ℥ss — Musk is a very active Medicine
in no degree superior to Asafœtid. —
Other, is the greatest of Volatiles — It may
be given in doses of ℈ss to 60 in steam of
the stomach; or applied in a bladder to the
forehead in nervous headaches —
Ol. succini, Harlem, & British oils, are
similar in Virtues. They are stimulating
Antispasmodic. All empyreumatic
oils possess similar Virtues — and never
to be used where there are any signs of In-
flammation.

Gum Camphor.

Opinions are various with respect to this Medicine;
which evidently prove the slow improvement of
Physic.
It is a substance sui generis, possessing
some affinity to the essential oil of Vegetables.
Differing from them in form and consistency. It unites
with acids, and is separable by Water —

The plant from which it is produced, is natural to the East Indies, and is a species of the laurel, resembling our Sassafras. It is volatile, & very penetrating — when applied externally to sensible parts, it produces irritation. By experiments on dogs, it brings on torpor and death. If taken in too large a dose, it is known to bring on delirium vomiting &c. — By experiments with the Thermometer, the pulse is first quickened & afterwards becomes moderate, the mercury was raised in a dose of 40 gr., 19 degrees, afterwards falling. Intellect greatly impaired, even on dose — From the observations of Dr Fothergill he concludes it is sedative, and cooling. That it does not impede respiration, & does not accumulate blood in the large vessels, nor does it leave the system more irritable. It does not act on the humours in any other manner than producing debility in the chylopoietic organs — As all other antispasmodics, it relaxes the superficies without affecting the heart.

Air very penetrating, pervading the whole interior. where stimulants are necessary to increase fever, camphor is ineffectual.

Out of the body, it is greatly antiseptic, preserving flesh from putrefaction, as much as upwards to 1 cal. cum. in proportion of 300 to 1 —

On the powers of the body it is not so powerful but of a weaker. As a medicine its action chiefly confined to the nerves of the stomach. Hysteria, but does not increase putrefaction. By relaxing the superficies it proves antiseptic.

Camphor useful in nervous fevers. It seldom relieves Mania in doses of 3 grains, tho' the difference in this complaint endeavours it's use doubtful. In epilepsies from terror it is peculiarly useful, very rare injurious. In low fevers where the vis vitae is languid it should be freely used. In all petechial fevers it is serviceable. In puerperal fevers likewise if taken in doses of 5 grains each dissolved in oil to the quantity of 3j thro' the day.

Hellebores Eupatorium, and Chiromon. The former having its seat in the vela mucosum, the latter in the cel. membrane —

In obstructions of the Menses, when from spasm.

If long continued, it weakens the genital organs.

In venereal cases attended with involuntary emissions, nocturnal emissions &c it may be used as an anodyne at night. If attended with, neat debility & hectic, should be used in the day.

In camp fevers, in the last stages of Dys. it is useful. In the latter case Peruvian Bark should be joined with it. It should be given in a bolus, first reduced to an impalpable powder by trituration with a little sp. v. or oil.

The dose should never be under five grains, & may in common be increased to 15.

Camphor. Medicines acting on the fluids. Before he commence on Medicines proper it must be observed that in some diseases the fluids are given with effected. This is seldom need in the course. Medicine and diet best affect the blood. Be cheerful on the Medicines acting on the fluids therein all be classed under

STIMULANTS.

Water is taken cold into the stomach stimulates its fibres, promotes digestion, excretion &c

the gases, and excites a heat in similar manner by the jets of intermittent cold water at a great service. In cases of nervous debility, particularly, cold water gently stimulates the system, promotes the secretions, & in chronic inflammations it is bad. Cold and warm water have the same effect on the bowels as the stomach, the same fermentation and irritation arise therefrom. Thus we both delicate & delicate, preventing obstructions in the Melancholic. Mineral waters are good in Hydrophobia, Hydrophobia, &c. A draught of cold water in the morning is the best stimulant for weak disordered stomachs. A mineral in the blood increases its health, stimulates and promotes all the secretions. It is the most powerful attenuant, and probably the only one that permanently acts on the fluids.

Alterants, or what are called, in Medicine are not to be considered.

Purgatives & Diuretics. The first are very doubtful. Many medicines are called alterants, which act entirely by affecting the solids

Spirits Salts are entirely dissipated by the constant
ved in the stomach becoming reactive upon
the contents in contact. Lime water combines
the excess of acid and neutralizes their bad
effects — Slack-lime, Pot. or Soda are
injurious from their causticity in minute excess. It
is in fact a formidable antidote in the hands
unskilled — Bicarb. Potash mixed with milk
produces effervescence, and relieves
the lungs. It must be combined with large
quantities of milk bearing nearly with male
water and increased to 1 ½ or 2 pints pr. Diem.
The mode of administration I recommend
in cutaneous complaints, and in indolent
Ulcers; The sores in both the latter cases must
be washed with the water. Costiveness must
be regarded during its use in vegetables.
Mixed with sweet oils Calx Sacc. is useful
in Scalds & burns. With Camph. Lub. the
Ung. Phagedenica is combined. This is good
in Ven. Ulcers. With roman, Ref. the Ung.
Sapherina is made, These ointments are very

from Jobiter. The Effluvia from recent
Fresh is Dangerous.

Salt is a combination of Alkali & ex-
pressed oil, or unctuous oil &c. It is soluble in
water. This they way usefull in Poisons, defla-
tion of Mucous on the lungs &c. - combined
with bitters it expects debilities of the Dig-
estive organs. In precedence of the Fis-
ura it is usefull. In great acidities of
children attended with Hymphatic. In Pei-
ne it may be mixed with the yolk of
an Egg & sweetness to render it palatable.
In Calculous complaints it may be
with some Gh to the patient. The here it
is doubtfull. From 4 to 2 in the day it is
said to reduce Corpulency. Dissolved in
milk it relieves Swellings of the heart
in lying in Women. Hemorrhoids with a
Mucous menstruum to be injected into
ulcers, Relieves Swellings of the Joints.

In Phthisis, there are Ingredients
to attenuate. Dr Fuller will close

Mucilaginous Medicines —

Mucilaginous under a table inserted part. Gum. arabic. The purest and most simple of the kind. It is very full where the mucus is abraded. Sweet oil may be well combined with it — This gum has been known to support life for a length of time in Jesus. Gum Tragacanth has similar virtues.

Tremulous Marsh, and round Mallow are all similar. Many of these mucilages are used in dysentery from irritation — Antacida —

It is ~~most~~ probable that acids are carried beyond the intestines, the veins, also on further than the stomach — In this sense they are always more or less present — In relaxed habits, they are often become dangerously morbid. From these causes Physicians have introduced Alkalies —

These are generally similar in their virtues —

Nepenthe is the best of power imparted from allaying the pain of the stomach and form in a neutral state.

There are also useful in inventing categories — Inny the Erritina

the rich specimens of innocent the mem-
brane of the eye, and increase its discharge
Tobacco sometimes neglect in partial affections
of the head. Sometimes fire relieve tooth-ache
chewing snuff or tobacco. Fire in a grand Intern
in the use of tobacco in its various forms of the
power of habit in the animal body. People
accustomed to the use of tobacco, suffer it
has little effect: and yet they can hardly
live without their favorite snuff, pipe, or cigar
use of tobacco. The most poisonous medicines
can be rendered innocent by custom. To-
bacco when injurious, is produced by its
narcotic qualities, and not by an increase
of salivary discharges —

Pleurisy is more rarely seen than pneumonia, it is hardly ever necessary to bleed in the most acute stage of the disease, if it be cautiously used.

Expectorants

Have been generally used in pleurisy, as well as stimulating or irritating or antispasmodic & stimulants. Indeed from their pernicious effects &c. The latter is the most powerful in intoxication & squills the linseed is used for the Oxymel. Expectorants are used in order to promote the discharge of the exudate from obstruction, or inflammation or spasm. Expectoration seems to be indicated in Pleurisy pneumonia and consumptives ~~in the~~ expectoration succeed or inflammation in this case the only disagreeable symptom is the perpetual painful intermittent cough that the best expectorant in inflammation small and frequent is milk diet, exercise and change air is most to be depended upon

Acrid effluxions producing tickling coughs remove
mucc. cages &c. The lungs are subject to dero-
gations, ulcerations &c. from obstructions. The 1st
to be treated in the manner directed for
pulmonary complaints. 1st Mercs. Cinnabar &c.
Cicuta &c. — The 2d recommended in
compl.ts of the bowels arising from scroful.
os. 3rd Tubercles are the most difficult
cure. Obstructions from mucus indicate
particularly squills and other stimulants.
In these disorders the fever is symptomatic &
here alone stimulants and antisep. are
indicated. In Asthmatic cases relief
from passive squills and squill
are to be found also in the asthm. bit.
squill and sulph. antimony — A excellent
receipt for this purpose is as follows —
℞ Aet. sulph. ℥j. Lacd. liq. ʒ.ss Co. liq. Cinnam.
℥ij misce. Capt. bech. pro. sight. pro nota.
Diaphoretics are such medicines as ease
the salivary discharge —

Second is the influence of the exposure
under the [illegible] of [illegible]
[illegible] any excitements will remove it when
taken, and hence in the mouth. Mercury
yet the Fumigation attending the Sale of the
wood very little. At the Stratford Incorpo-
rated Society. Hartz on the whole ever
[illegible] in some degree. Spasms and pain
when act by similar, and by that part the
[illegible] acts immediately on the [illegible]
[illegible] in [illegible]. Spasms [illegible]
[illegible] affect the bowels. He acknowledges
[illegible] taken put the [illegible]
[illegible] when upon a chemical analy-
sis, and is in no degree specific. The
[illegible] smell in salivation [illegible]
[illegible] mercury but to the mere [illegible]
[illegible] but in many [illegible] the pro-
[illegible] will accompany ——

In Venereal Diseases Mercury is peculiarly useful. The first stage of it is called gonorrhoea, or Clap. This is a local affection of the Genital parts upon first receiving an inflammation without ulceration first takes place; here the internal use of mercury is of little consequence. A caustic alkali from Sheriments of Mr. Hunter, and the whole two medical Gentlemen in Edinburgh prove its use before, at first symptoms of inflammation come on. It is to be carefully diluted. Lab. Tart. in water strong enough to affect the tongue without fear in terms, the receipt of the Dose in Van. Gaser must be kept exactly secret. Injections such as Hydr. merc. one drach. 3j Aq. rose. pur. 3ß. misce bene, in Gleet.

Gibber Urina cured by warm fomentations, immersing the Penis in warm water, and hermitting the urine then to come in

probable relief by topical bleeding, by tying
in binding the penis down, & it is useful
also to anodynes — After inflammation
weak astringents — Injections are often
attended with many bad consequences.
Some Caution in using them.

2. Gleet, common remedy is glauber
Salts with Calomel; & Tartar emetic —

[illegible]

Sore Throat —

Inflammation appears in various shapes and is hard
to distinguish. It is often mistaken, often confounded
with the lues venerea, & vice versa.
Upon the venereal lues being first received into
the system, buboes commence appearance on the
groins, from glandules, plants elsewhere —
Sometimes heat, redness, & swelling ensue.
Pains be so severe in the extreme parts, patients
labour become uneasy, affected. Should
buboes appear the same will be the —

Mercury or Quicksilver, is the best, and most preparation for internal use. It is remarkably active, and concentrated. In some cases it requires preparation to render it useful. When a mercurial wanting, these more powerful determines to be given. In some diseases these are the most, the most preparations are best. When the body is used, it must be used to increase its effect. For this purpose, it is used more in combination with a fixed, or free mineral acid. The quicksilver increases, or decomposition, the effects of the superficies. Salivation always the less avoided, when these are improperly combined with the acid preparations of mercury as they produce a recomposition. Form in which of Clothing, prevent the operation of mercury by determining it to the surface. Blanks solution is not affected, but often dose, non imprudent use.

Pabos should be discharged with more. Unless this
to be well watched in below the swelling.
The affected parts. The bitter diet drink
frequently joined to mercurial inunctions
are. The Lobelia syphilitica would
little indeed in the case of the Lobelia. The
mercurial treatment of the whites.
the gleet, or discharge after is made into
a decoction with 3 pints of water to be used
the day. Care is to be taken that it does
not purge too much. The decoction to be
varied with it. The tumefactions may be
added with advantage. Of venereal diseases
in 12. or 14 days.

In the late war mercurial
treatment has been attended with happy effects
should be adhered to the instant immediately
continued till a light salivation
or a fever. Mercury may be used internally
the same time in a fluid form

medicine yet found out, has been received
here. In scirrhous obstructions of the viscera
recovery is very rare. Hence the frequent
consequences arising from visceral obstruc-
tion such as ulcers and cancers. The Plague shows
a great affinity to the pox. Ob.
vary in the
first with the glands, swelling under
the ear. The contagion seems to be not
in the tongue nor the place, I believe about
the skin, which is completely involved in pectu-
nal, varies are limited to the pox. Here
symptoms appear various in different cases.
The disease proves by communicated by
infection either the same cause which produces
it. The Cause is similar to the pox.
In this we decide from the modes of spread
of the disease. Sudatories are recommended the
they shall become malice.
Fever, among the people called the Crown.

inflammation peculiar to children under six years of age, the often below 6. Hereupon, usually the first habit. Slow inspiration followed with difficulty. Before the tumor, which the little face in the face, and shortness of breath increases moment the cough, pulse quick the respiration more. Abdomen becomes distended. In the second stage the countenance with the lips becomes livid, face swollen, neck bent out and the usually the patient deaf conscious. The disease is not to be thought banished, till the membrane is destroyed, and the voice becomes natural. Upon dissection a hard mucous has been found in the trachea having different appearances. The proximate cause is the effusion of mucus in the trachea, and not effusion of lymph, sometimes the mucous membrane of the bronchia forming a substance like a membrane, very tough

and acid of solution in water. Children abounding freely with mucus, and are in attention to coughing it up, lays the first foundation of the disease — The predisposing causes are a moist atmosphere & gross habit of body — From the mucus remaining in the Trachea, the fluid part are absorbed, and the remainder becomes inspissated and adhesive — Hence irritating the part still increases the secretion of more mucus. It entirely differs from a spasmodic constricting of the lungs, as in this case there is generally no expectoration — it's attacks being more sudden, and goes off more rapid —

The symptoms usually given are, constriction in the upper part of the Trachea commencing, with a bellow, or peculiar ation, & the usual difficulty of respiration with the different appearances

Salivation. In forming the prognosis, the first question is, Are there any symptoms attended with alarming tendency? If the swelling is hard with great anxiety, quick, bulky, the patient seldom recovers. Recovery is the effect according to the stage of the disease. Non-fect. is frequently preceded and succeeded by the Bilious. Bilious, sometimes terminating in suppuration of the parts. Symptoms not invariably been attended with some disagreeable consequences. Among these Mercury holds the first place. It produces it in large and repeated doses. From the attachments of the jaundice pattern it immediately, in general large quantities; mucus from the intestines, and in constitutions producing concretions from the fact of bilious

Jan. 1st 1826

Croup continued —

Dr. Kuhn was called in to a child 3 days after the disease had been present, febrilium, Diarrhoea &c. had been a prime agitator. On 16 hours go, pain at external laryngeal & 2nd stage membrane forms, the hoarse cough, cough, vomiting, & tracheotomy may occasionally be used. In inducing vomiting v.t. should be used cautiously. Tumors of the larynx, or long protracted will bring on croup most powerfully. Tracheotomy is very doubtful, and will never relieve unless the membrane can be brought away. There is a prevailing disease resembling the croup, proceeding from spasm alone. It differs in coming on suddenly, and is attended with no effusion, or concretion of mucus in the trachea.

A dose of Laud. liq. Podophyllum &c. relieves it — For consideration on emetics in general see Dr. Cullen's M. Medica —

Antimony. The Virtues of which consist in its regulus alone. The Crude antimony is composed of Reg. and Scorif. Before the Regulus can act it must be rendered fusible. It is a very uncertain medicine in its operation, as it will be more or less violent according to the acid of the stomach. Nitrated is a crude Tartar, the lower of the Cones are best as they contain more of the pure regulus. The Vin. Ant. possesses the same uncertainty in its administration with the Regulus. Tart. emet. is the best preparation of this Semimetal. The action of antimonials is confined to the solids. Upon what principles we are not sufficiently acquainted with — They act by stimulating the stomach, and affecting the whole ~~[illegible]~~ system in sympathy. In solution the T. E. is most apt to vomit. We may give it in large or smaller doses in pills or solution under it emetic, cathartic, Diaphoretic, & in some cases

diuretic as we please. Some preparations of anti-
mony are said to be expectorant. Former mineral
quacks under the Cap.— Q. b. they must act by
emetics — In Fevers antimony is extensively
usefull. In its first action in continued fevers, the
symptoms are commonly increased till a sweat
breaks out, which always affords the patient re-
lief, & leaves him pleased with the effects of his
medicine. Q. used before the hour of an
intermit. so as to bring on sweat and nausea
it often prevents the fit. The stomach
will bear twice as much T. E. in substance
as in solution. James's powder being only a
preparation of ant. & nitre — and its dose
uncertain, is inferior in every respect
to the Pot. emet. all Powders under the
name of James's are spurious, as he has been
dead these several years, and left the hind
him no receipts — In Dysenteries T. E.
exceeds Ipecac. altho the Prac. first
suspected its utility

It more powerfully determines to the surfaces. The Vit. Cerat. ant. has held almost the first place in the Cure of Pers. but it is no means equal to the P. E. being as fully liable to as many objections as the other preparations of Ant. —

P. E. is useful in hemorrhages of the bowels. Opium is necessarily joined with antimonials determining their action more powerfully to the pores. In foulness and lizzes of the skin these are useful from the same cause. Purgings to be avoided. In those cases it is well to join Calomel with antimonials —

Tart. emet. may be given to children even the greatest safety — as they bear vomiting better than any other evacuation, it not weakening them so much as purges — the only objection to the relaxed use of emetics, that they tend to destroy the tone of the stomach —

Jany 13th Ipecacuanha

is not growing plentifully in the southern coun-
tries. It was formerly held in great estimation for
the cure of the Dysentery, but late experiments
have proved it to be equal, and if not superior bett.
His quicker than O.E. in its operation, therefore
bett when a sudden evacuation is wanting. The best
mode of giving it, is in doses of 6, or 7 grains each, if
repeated every 15, or 20 minutes till it operates. For
children 3 grains is sufficient, which may be re-
peated in the same manner. In violent vomiting
a flannel cloth, or any bandage should be tied round the
abdomen. No water, or any kind of drink should
be taken till the operation begins; Often large
draughts now, and then, are better than small ones
frequently repeated. Grown persons require larger
dictions than Children, as these abound greatly
with humors. Emetics are usefull in intermit-
tents, and just after the harvest season. They are
dangerous in fevers & phlegmasies. In Tonsura &c.

from intemperance in solids & constitutions where if vomiting is necessary, it should be brought on by tickling the Uvula &c., acrid glysters should also be injected, which precautions prevent apoplexy &c. Emetics are necessary in worms producing convulsions &c. by avoiding them in that way & preparing the way for other medicines. In Poisons they are usefull and ought to be given immediately, the not in cases where arsenic has been taken in too great a degree. In this case milk, & oily substances involope the particles of poison & do thro its irritating qualities. In Asthmas & other chronic, or spasmodic, emetics are necessary. In the first, small quantities should be taken thro the day, lest keep up nausea. Emetics may be usefull in Lumbagos, tho they ought to be very cautiously used. In haemorrhages of the lungs, they are usefull. Small doses of Ipec. in Chronic & Peripneumonies promote expectorations

Purges are improper in hysteric fits hyp. hernias apoplexies, or inflammations from Plethora. Purgatives less than purges in their Operation.

Cathartics, evacuate the ordinary juices of the stomach and intestines; and in their operation increase absorption, hence their use in dropsies but ought to be given in the beginning of the complaint. By their stimulus they produce a derivation of blood from the head. Hence their use in headaches, mental stimulus, & inflammations from Plethora. Many extend their stimulus over the system. From irritation they often produce the piles. They enervate the intestines in their action, and incline them to spasm.

Cathartics are divided into two classes. viz the mild, and acrid. Cathartics just are moderately cooling & laxative.

Manna & sugar betweendose an active fermentation in the stomach.

sometimes producing convulsions in children. Consequently bad in weak stomachs. Yet in those cases be blended; Castor oil is a useful purgee.

Castor oil is a good and safe cathartic. The seeds from which this oil is produced is highly poisonous, tho have been taken in large in small quantities. Castor oil relieves the dry belly ache. This complaint is generally produced from hardness, lead taken into the bowels in a corrosive state. It is good in all colics, and dysenteries. It also is particularly confined to disorders of the bowels. Other purgatives from this irritation are attended with many bad consequences.

Sulph. is a mild purgative, the inferior to castor oil. The washed flowers are best, as it acquires acidities from the air.

Sem. Sanctis. may be taken whole from 1 spoonfull to 2 three times pr Day — It is a good laxative in this way in Paralysis —

Soda is doubtfull in its operation, nor be found
observed it cure full in some cases –
Sal: Glaub: & Epsom, in small doses, are seda
tive. In inflam. fevers dissolved in water, they
do great service; much preferable to the Neut.
Draughts commonly given – They are hurtfull
in hysteric, hypochondriac & gouty complaints
if taken as purgatives –

Acid Purgatives P.t

doses, is a great favourite. Protects the rectum
from piles. In obstructions of the
mesentery useful. It may be taken in doses of 3ss
at bedtime. In obstructions of the bile, aloes
act as a succedaneum.

Balsams

The Peruv., Tolu, Copaiba, & Canad. are good in
spasms. &c —

Rhubarb, should be bottle dry. When
broke it should be stocked like Rhat mag.
Moisture renders it worm eaten. It astrin-
gents tone the intestines & by its stimu
lus, increases their peristaltic motion –

Hence its utility in fluxes, from atonia. It is particularly good for Children —

Folia Senna, best in infusion with some carminatives. The cat. is indifferent —

Jalap: is by boiling rendered diuretic. In Dropsies the following receipt is usefull in their first stage —

℞ Bulb: Jallap: grs 36. Calomel grs 6 m. f. Bill. no vj and take one every hour untill they are all taken, unless the purging becomes too immoderate —

Jany 14th Scammony —

is produced from a plant in Asiatic Turkey. Who best grows near Aleppo. It is the inspissated juice of the plant, it is frequently adulterated with flour, and when pure it is little semenby. It is brownish white color &c. It may be taken from ij to xv grains in a watery emulsion. It is a good hydrageogue & make indeed mild laxative. Well with water

Proceed to in small quantities. The composed part of the Pulse Tornachini — the Consumption of this country, ~~and~~ is the same precise, and marked substituted.

Diuretics —

Before we notice classes of medicines. Before these are entered on, it will be necessary to premise some Observations on diseases.

The proximate causes of diseases may be divided into two heads, viz. first the state of the fluids, secondly the solids. The fluids are subject to retention from an increased quantity of watery particles. These increase the quantity of serum, together with a suppression of the secretory Organs. Habitual Hæmorrhages will often produce Dropsy. Here the particles of blood are excited to escape from mechanical Dropsies frequently arise from a failure in the circulation or and the secretion from an Obstruction in the viscera. After inflammations of the Viscera dropsies frequently follow —

Also from scirrous tumors, venous Pathoraty.
The indications of cure to be directed by the
cause. Diuretics in in every case if proper.
These do not in cases the Extract of emetics &
cathartics. A glass of cauthic water, in the bottles
is one the best diuretic. From ℥j. to ℥ss. Sal:
tart: with ℥viii of any bitter infusion, such as
Hornwood &c. may be taken to the quantity
of a wine glassfull two or three times a day.
This is deobstruent as well as diuretic. Diaphore-
tic alkalies are produced from vegetables by
burning. Hickory ~~&c~~ oak &c. will answer
very well in its room. Gallad: or Sec:
Wild become diuretic. Opium in infusion
good. Corticum was brought into use by Dr.
Cook. It is similar in Virtues to squills when
made into a syrup. Mustard, Horse radish
vesper &c. are good in Dropsical complaints.
Mustard whey is a very good Emetico —

Antiseptics

All putrid & acute diseases require the same treatment almost. The same general causes existing in all. The solids & fluids in all are affected. In sporadical cases are a natural tendency in the fluids to putrefaction, animal poison, atmosphere, violent exercises, corrupt mixtures, sudden change from a cold climate to a warm, and there are much added by improper alimentation or improper use of the exciters. The robust and vigorous are most in danger of putridity.

The proximate cause of putrid fevers is a septic putrid matter in the blood either in a state of ferment, or actually taking place after mixed in the system. Putrid fevers are not always contagious. In this disease from what has been said it appears evident, that the fluids of our body are in some cases primarily affected.

2 Lun. 1st 1812

Method of cure for Putrid fevers.

All putrid fevers generally require the same treatment. In performing the cure we must first destroy the putrid miasmata, or affection, & secondly rouse the system. With regard to the first intention bleeding is seldom necessary, if used, it ought to be performed with a sparing hand, in the very beginning of the compt. — Warm water, or Chamom: tea answers much better than emetics for discharging the contents of the stomach. The bowels are to be kept open by the use of fruits, & acidulated drinks. If sick nausea be obstinate an infusion of mint with claret will relieve the stomach. This is frequently to be repeated if the elia. Pot. to be cont.d in the intervals. If diarrhoea is to be over avoided. Wine tinc'd with Cinnam: roasted oranges in Claret &c. may successively be us'd. Glysters produce much dispute among Physicians with respect to their use in the first stage of the fever, in typical affections of the abdomen they will be serviceable — Blisters, are very necessary when the sensorium is lariqued. In producing gangrene, they often

more serviceable by discharging the vitiated matter
from the surface, more especially the urine bath should be
repeatedly with Acids. Air generally best in de-
coction or infusion. Should the stomach be too
irritable to bear it in any way, it must be
administered by glysters. Saving the bad
medicines to the part & the general effe
nities are very beneficial. Where the Pediluvi-
um — In the Ang. pectoris inspections of the Emetic
tartar, fumes of vinegar &c. &c. services
cool diluents & water should be allowed, & light
nutrient Diet of a nourishing kind. Fresh air is
the most important service. A change of linnen be-
fore recovering the patient should continue the use
of antiseptics, and gentle doses of Calomel now and
then to evacuate the bowels. The cold bath is
very proper. Blisters, & the rash increase
the circulation to the part, & diminish fever —
they perform this by 1st acting on the nerv. energy.
2nd by attracting the circulation. and 3d by indue
ing an evacuation. Under the 1st head is ranked
the epispastica rubefacientia such as mustard &c.
2nd Vesicantia, viz Cantha. & 3d Sulphuranticia
as Tartar emetic &c.

inclining rather to cerebral torpor: have gotted to
more habits — Vesicantia indicated to Phlegmatic
and inert constitutions, or where a sudden evacuation
required. Diff. Diseases are benefited by these —
opinionated are useful to evacuate serous re-
cumulations in chronic complts. and in old age —
Blisters in fevers attended with comatose headaches are
useful. In sudden delirium in dull Phlegmatic
habits they are most useful — When Blisters have the
effect a favorable prognosis may be formed as
from blood. After fever upon raising the Vesicle
indicates the blood as wing. In Pleur: & Peri: they
are useful, more especially in the first.
In ~~[illegible]~~ local ~~[illegible]~~ Cases as near the joint as relief
ble Blisters when used ought to be avoided —
in other cases the extremities are best.
Mucilaginous and diluents drinks are very well
to prevent or take off strangury. In all Inflam.
Blisters &c. are found of service. All these are
beneficial in Rheumatic toothache. Small
cutaneous fevers, where the irritation, relief
in Blisters afford the quickest relief. They
are improper in Tubercular affections —
also in affections of the eyes & ears.

in Sciatica. Few accept to be restrainers in time. In a retrocession of the gout from the extremities they are very useful. Col. Col. nitrate also the Phlebotomy in determining the gout to the rectum &c. Phlebotomy the least where they gout may be after its retrocession it is uncertain in the case either one it they do good. In Hemorrhages they act by revulsion, thereby become a service. In Apoplexies, or Suppression of Urine, we have blisters applied to the Scalp which will afford relief —

In Pleurisy, Phlebotomy & Epispastics in the beginning is decidedly the best, they immediately lessen pain, they immediately lessen the bulk and larger of circulation. In the pneumonic form the recourse to blood flow fails the attack is generally sudden here all stimulants are improper. The quantity of blood is to be determined, and a recollection of probability to be made from the head.

Non-fact in the preceding, proper Medicated
Plaster of oil of Poppies. Fact should be admini-
stered Cordialcum frequently to be repeated, and
as soon as the patient can swallow he must repeat
the take a purge in the morn. must be much
observed. Cleanliness and fresh air should be ad-
mitted. Exercise subject to fresh disease, should be
attended. Exercise in bed clothes or warm wea-
ther, freeing of the bowels, relieving pain the
head, light handages to inner parts, the bad
mud at all times be avoided. Upon symptoms
of Turgescence, coagulations are to be used
in the fever, the head is to be laid high,
not free enter shall be later. Jugal vein
at second comp: should be laid under the
tongue. Tamarind, Vegetables bitters &
volatile. Drops are occasionally necessary.

Emmanagogues

wise purposes it has been ordained

that women should be the only parts of the animal creation which are subject to the menstrual discharge —

The ultimate cause of the menses or for the nourishment of the foetus. The modes are uncertain for this phenomenon which is attended with several objections is given a partial plethora. The menstrual veins before pubertey do not admit red particles. The veins are full with valves, and from these results the partial plethora produced by nature and the depending situation — the uterus in some measure favoring it, brings on this discharge, which is somewhat periodical unless during pregnancy — and then there is an imprescription, as it then goes to the nourishment of the foetus, its original purpose.

The return of the menses at certain or uncertain times depends much on custom — some has longer intervals than others.

The menses begin to flow about the 14 or 16th year in warm climates earlier than cold. For some days ~~[illegible]~~ flows for two, or three days, when it intermits for two or three months. The afterwards returns at shorter intervals and commonly 28, or thirty odd days. Previous to their first appearance, the breasts enlarge, and grow plump, having a kind of pricking sensation. They continue till near the fiftieth year, at which time the vessels lose their tension and gradually take place. The decline is very gradual, and the time of their leave uncertain and necessarily from most accidents &c. are often caused by the cessation of the Menstrual discharge.

Jany 17th

Montreal Orleans. —

are divided into three heads. 1st Suppression

2nd Also copious venesections, if there not after an
initial rigor opp. In the latter case, Chlorosis
is the consequence. This is distinguished by Palpi-
tation, acid eructations, desire to eat alkalies, earth,
&c. The cause lies in the blood. Hence the
indications are to remove the cause, and
restore the system. Emetics should be
used with great caution for this purpose. Exer-
cises on horse back in the morning with the
tetraceous powders of Rhad, are most advisable.
Aliment of an animal nature is most proper.
After this process bath with chalybeate may
be used, & the cold bath to complete the cure.
The suppression of the menses is distinguished
from one occasioned by Pregnancy, from an
separation of hymen periodically, &
remote cause is cold. The Protimate may be
divided into two heads, Laxity & Spasm. The 1st
is always attended with a languid circulation.

"it be corrected by tonics &c. with a laxative
or emetics, and purgatives such as Calomel,
&c. accompanied with a strict regimen
and clean air, a moderate diet and the
bath when it can be used with safety
pounded near large rivers, or a tonic the
Chalybeate waters, and the different prepa-
rations of steel claim our special place in
giving energy to the debilitated fibre. Electric shocks
galvanism have been found serviceable. Drinks
may consist of wine &c — When occasion to purge
it may be relaxed by aperients, and an occasional has-
modies. Vem. Sect. Cedicuarum, and more &c. are
also occasionally used warm fomentations
to the regio pubis. Cold should be avoided. The
application of remedies to be used about the
the proper period of the menstrual dis-
charge with antispasmodics. Cedicuarum
V. J. Dr. That those that are to give tone
to the system in the interrals.

When too copious or returns too frequent, the Co-
operate cause of the first is plethora, and debility
and the irritations in the Uterus. The predisponent
and occasional cause are indolence, exhausting
& producing Plethora. The second may be
brought on by violent labour, use of foot stoves to
feet &c. It is evident from the general symp-
toms of debility. Irritations of the Uterus are
induced by partial plethora too frequent
coition. It may be distinguished by pain in
the head & neck pubis, difficulty of breathing, hec-
tic fever, from retained placenta attending
after birth & clotted blood — The 1st and 2nd
indications to be treated uniformly & necessarily
their different causes. In great debility,
cold water alum whey injections of oak bark
&c may be injected into the Uterus —
Opium is best in increased irritation of
the Uterus. Clysters of starch, and opium
may be used. Blisters to the back, or inside

of the thighs seldom fails. Fresh herbs &c may be used for diet, drink mucilaginous. Rubing with bath of ointments complete the cure.

Anthelmintics – Worms are inimical to the human constitution as to produce many diseases, from their increase in number of having with us in aliment of the body. They are produced ~~from produced~~ from the which eggs in them are contained being taken into the stomach with our aliment of drink – Boiling will not at all times destroy them in embryo. The weak & children are most troubled with worms from their feeble digestion. In the human species these worms are of four kinds. The vesicular they are a small and white animal of situated in the vertebra. 2. Lumbricus or earth worm, which is four inches in length 3 Tenia or tape worm is a considera-

of the length and composed of several articulations. Each of these articulations, if left life when separated, form the round worm. These are difficult to expell. A Lumbricoides are pointed at both ends. Extensive et. These many more insects are supposed to be generated in the body. The disorders they produce are various. The most common are a ravenous appetite, distension of the abdomen &c. Colics, and Cardiac complaints these are occasioned by the medus they form, their giving rise on Diarrh. Dysenteries &c - They move from one place to another giving rise on various convulsions by their irritation on the nerves - They sometimes eat and the nuts - Bitter sweet potatoes & mercurial tend to expel them.

Jany 19th

On Helminthes

After considering the nature of worms

in general become in the past have to
be symptoms —

The patient has a pale & large
venter characteristic in his face —
Pain under the ribs, the navel under the
eyes, a disturbed sleep, melancholy, bile
on the stomach, thirst in the morning,
giddiness, and fainting, bad breath, vomit-
ing, sometimes difficult breathing, some-
times cardiac, & other costiveness, voraci-
ous appetite — about the new and old
moon generally worse. Venereous, frequent
a calness & nonchalance & laziness —
if combined with other diseases, the reco-
very is slower, & more difficult of cure. There
is scarcely any disease, but symptoms of
worms resemble — Hence it is the duty of
a Physician to make the first enquiry

about worms in uncommon cases —
wind on the stomach is the most com-
mon symptom in children — Different worms
produce different symptoms Tape worms cause a
contraction of the abdomen. A sense of
fullness is perceived with a kind of rolling in
the Bowels. voiding worms is an indubitable
sign of their presence. Ascarides produce
an irritation in the rectum. Lumbricales
a pain, and uneasiness in the umbilical
region — We now proceed to the Method
of cure. Anthelmentic medicines
are divided into two heads. 1st Those which
act directly, by destroying them. & 2ndly Those
which act indirectly by being disgustfull.
The latter intention is answered by bitters
such as wormwood &c. These actings directly
on these animals, and restoring tone to

the stomachs, as well as the whole system.
Cathartics carry off the redundant, and what
remain the matter they may collect —
The third kind are the best, and most
used of the mercurials. Those which act im-
mediately on them, are next to be considered.
These are divided into mineral & vegetable.
Mercury is peculiar for its properties
in this way. It is most efficacious in form of
the Metallic salts, mercury, tin, & iron
which mineral is very trifling. Calomel &
corrosive Sublimate are most powerfull. The
latter in pills of 1/4 gr. each, & to be cautious-
ly used. When, very powerfull. Preparations
of copper may be formidable, but
are apt to vomit: Tin is considered a
powerfull anthelmintic. His chief power
in destroying worms proceed from the arsenic

contains or from its alteration made in the
will in the stomach. It is at least uncer-
tain, and very unsafe. Prom its separations
is powerful from their tonic effects.
Sal: Mart: or chalyb. prep: may be given, the
children. The latter is to be long continued.
Of the vegetable class, all fated plants
are powerful, such as pulsic &c. Asa fœtid:
The Carolina Pink root, just recommended
by Dr Clement of S. Carolina may perhaps be
ranked among the gent. It may be used in
powder, or infusion. The dose for a child
should be 12 grain. If used in too large a quantity
it proves narcotic.
Beau root is still more powerful. It should
be first used in small doses of 1 or 2 grains for a
child. Dr Mutt prescribes it with Sulphur min:
Species Antihelmentica is recommended
by a Dr Brown of the W. Indies, as the most

efficacious in any in worms. A grow like grass.
Two handfuls may be boiled in one pint of water
to a pint, when it may be strained, rendered palatable
by the addition of any menstruum sweet. This may be
taken at bed-time, or 3/4 part every four hours thro
the day. In a child a less quantity must be
used. Hence convulsions from worms, incum
bent. Rarely above one oz is required.
Tansy may be given afterwards. Dr Mitchen ins.
cures the disease. Still the urinet must be careful
with this compliment —
Tansy tea may be given in syrup or molasses.
Its mechanically. Some have not found well
given the time end. Dilute not effectual
in infusion. Particular species worms often
require particular medicines. The Arcadian
spent the season, lastly, mechanically
molasses and syrup will destroy, yet the cause
never will be herein. Such fibres and roots

Turpentine is most effectual & perhaps, that
Bacon will often bring them away in the act-
ashing them selves, & if. for expelling the
lumbricoides, medicines should be given in the
morning. Milk is the best vehicle. The patient
should not smell the preparation while taking
it lest the worms, sometimes attempt
to work their way thro' the intestine & pri
ap be known by a great pain in the abdo
men. Colocynth should immediately
ated on the part, or a poultice of it be
laid on that part of the abdomen. Salted
meats, onions &c. should be avoided, as the
will send them towards the anus, when aca-
tiver will expell them. Tonics should more often
be used. In severe cases, Tonics & the
injection of 3j to 3ss may be repeated in
a pint of gruel or rice water.

since is most difficult to expell. They adhere
closely to the intestines by their intestinishes. The
patient should confine himself to dry and salted meats
for a week or fortnight before using any medicine. Upon
the worms moving down Jalap & Calomel should be
given, to be worked off with large draughts of
cold water. Dr Hagglequist mentions in
his Travels that he drove Petroleum in Water
with a dose of mercury next day would be
effectual. The Inhabitants of Sumatra are
very most expert about the waning of
the moon.

Annotations on the Theory and Practice of Physic given by Doctor J. Munro —

Anno 1784 —

In acquiring a proper knowledge of this science, all Studies are rendered subservient to it. Mind Speculations are now laid aside for more certain facts and determinate experience should direct the Man. In acquiring a perfect acquaintance with the Tables, prepare the latin language should be perfectly understood and sufficiently much to derive the technical terms with a general knowledge of Philosophy, Anatomy and Chemistry should be well understood.

Adverse is that state of the body in which its functions are improperly performed or not at all. In attending

the cure of the operations of nature should be carefully considered observing to moderate our efforts when too strong, & to use the stand when too weak in cases where medicines are not necessary in chronic. In the first nature being most able should be very carefully attended to the symptoms not the disease, in the effort of nature. The generality of practitioners may say the disease is the effort of nature endeavoring to throw off the offending cause. Instanced in the Cholera Spasmodic &c. In the Practice of Physic few medicines are only necessary and not to be too frequently changed —

Intermittents

Bring on lassitude &c. For the symptoms and various types of these fevers, consult Cullen.

January 2nd 1789. Cullen.

Fevers — In proceeding to account for the propagated causes of fever, it is necessary to adduce the Hypothesis proposed by Dr Cullen, which is supported by hypothetical reasoning: Hence must be leave to differ from him —

Debility cannot produce an increase of the brain's energy or reaction

nor can it produce from irritation, for it would be inconsistent to suppose that debility should be the first effect of increase.

nor can it produce spasm, and that spasm, the next.

There is something too ambiguous in it to be fairly understood, & will require some and complicating hypothesis to support the recovery reaction

hypothesis

in fevers then

is produced from an immediate irritation.

This is proved from experience and careful observation. All hypothetical reasoning must

idea in practice. We are next led to con-
sider Dr Boerhaave's reasoning. This author
for his great erudition, & seducing, & plausible
or reserved immortal, raise, but we can
not to be, merely a theory in character
however great. Theories & hypothesis produced
fever have never been proved, daily observ-
ation contradicts the authority. Affecti-
ons of the mind will produce fever an inter-
mittent in an instant of time. Bleeding
has never discovered any effects of tension in
the first stage of fever. We next proceed
to the ratio symptomatum. Cold or
Horripilatio is brought on by pain. a.
nausea; from Spasm on the extreme ves-
sels. This affection was proved in lectures
on mat: medica from Sympathy. Dr
Sydenham cured this by emetics

the animal warmth. The increase of bile is most observable in warm & marshy countries. This supposed by many to proceed from morbific matter, it is the real effect of fever on the system, inducing debility, & causing a congestion of blood in the vena portarum, from the languid circulation. Hence the great secretion of bile, being the effect, and not the cause of disease. Delirium in fevers of the inf. kind proceeds from an increased impulse of the blood to the brain. In nervous fevers delirium proceeds from weakness in the nervous system, causing obstruction & inflammation in the brain. Opium relieves this complaint by rendering the part insensible, corroborants should be joined with it. A fever may not

properly be defined an increased action of the heart with a lesion of the animal functions. Synocha, or inf. fever is produced by cold. Its duration is generally seven days, & terminates either by hemorrhage, or sweat. For other particulars see Cullen.

Typhus is caused by miasma or contagion excited by cold. Continues from two to three weeks, and terminates without any sensible evacuation, or crisis — Bilious fever is produced from miasma or contagion operating as a ferment in the body & fluids, as is exemplified in the small pox. The blood when drawn does not coagulate, when otherwise the serum resembles lotura carnis. Spontaneous Hemorrhages take place. from blood spreading under the cuticle Petechiae are

gained. Vapor from the putrescence of an animal body is the most deleterious poison in nature —

January 22nd

Remote Cause.

This is produced by a transient putrescent effluvia. Placentas, and other decayed animal substances, are good instances of animal effluvia. The first from the uterus, confined to the effluvia from another, found and contagious from the [illegible] of an animal body. From Miasma which gives, double tertian, intermittent, remittent, all the bad [illegible] —

[illegible] generally change into one another and [illegible] in the same [illegible]. Contagion or it is confined to the effluvia arising from a diseased human body

avoided by having no connection with the world. It is not powerful enough to effect a cure without assistance. On the Turkey where Plague rages so powerfully, a wall of Spent Earth will prevent or cement the infection. This contagion is not dangerous unless the infected. Specific contagion which is that which always produces the same effect on the small pox. Some therefore reservation are considered necessary to distinguish the same under different causes.

Dr Cullen says, "Fever is a disease. It ~~[illegible]~~ sedative, or consist. ~~[illegible]~~ when applying the cause to the ~~[illegible]~~. It's cert action is idea but in a transitory manner. ~~[illegible]~~ tives ~~[illegible]~~ ancient. but its irritation it produces a particular death. It produces inflammation by repulsive

Respiration, and increasing the irritation of the intestines. Cold applied to the general surface. All the irritating causes produce fever as a specific remedy, in temperament fever.

The first is exemplified in the irritation of the bowels in the Dysentery during the violence of a contagious disease —

Jany 23d

Remote Cause continued —

3d The 4th remote cause of fever arises from Ailment in the stomach producing indigestion and from a disordered state of the stomach. of ~~the~~ organs

Fever from Miasma, contagion and cold — when brought on by the latter a Specific is attended. Fear, intemperance, heat &c. &c. much affect other causes in producing fever —

Prognosis

The Cause of fever if continued will an —

ways produce death. but nature in endeavoring to remove the cause produces an increased action of the heart & arteries. This is the theory of Physic called the Vis medicatrix Naturæ.

The causes of death are either direct, or indirect. Under the 1st may be classed all poisons, and violent irritations — The former acts sedatively. The Prognosis may be formed under three heads viz Stimulants, Sedatives and Septics. In a first we in considering the pulse is to be consulted. Physicians draw a line of distinction between a quick & frequent pulse The first strikes with a sudden Gish, the latter with a hasty succession. at the birth of a Saturn the pulse strikes from 140 to 120 in a minute. Declining by age from 80 to 60. The pulse in fevers is highly dangerous.

when risen to 120, unless from some accidental circumstances. Debility increases its frequency & Deliquium enemi. The distinction between a strong, and full pulse is hard to determine. When united with a frequent action a considerable stimulus is indicated. Severe affections of the brain with symptoms of Apoplexy &c. is the only objection to a full pulse. In consulting the pulse both wrists should be felt and the most superficial artery determined on. Tension in the artery will produce a hard pulse, as happens in all inflammations. A pulse becoming fuller upon bleeding denote oppression in the circulation, and that its smallness was not owing to debility. The regularity of the pulse to be judged of from the time between each pulsation.

Irregularity in the pulse is commonly owing to irritation, and Weakness combined together. Upon the whole it may be concluded, that a quick strong, & hard pulse denotes inflammation. Dice versa —

The Heat of the body may be considered from increased circulation, & suppressed perspiration. A pungent heat is observable in the gums upon touching. The skin is fallacious — Moisture in inflammation is forced by the quick circulation, but no means denotes a relaxation of pharm in the extreme vessels —

Discharges of Mucus, & saliva, sometimes attended w. Dry Fauces, and an increase of fur on the tongue indicates great pharm. The tongue in a long continued fever becomes yellow, & afterwards black.

of becoming moist is a favorable symptom.
Viz. diminished secretion, & consequent respiration of a morb. acrid on the blood
when Diaphoresis denotes Inflammation.
face irritability, irritation in the first
place with debility. Inf. secretions
may cease, accompanied by delirium
on some of the vital viscera, & pro-
ceeding to fatal inflammation.

Jan. 24th

Were right to the symptoms general
inflammation from Chill. Diathesis af-
fecting the more vital parts.
First in the head, & brain. This is discovered
by pulsation of the carotid arteries & left
left in the temples. A redness & fullness
of the face is discoverable. Tunica
Arachnoidea is sometimes highly inflamed

spread over the whole aspect of the Body
- ness & hearing &c. The most common De-
terminations of inf. fevers are to the Lungs
and Bowels. Pain necessarily follows Pain
in the Side and adjacent, distinguishes
Pleurisy from Peripneumony. In the latter,
pain is felt between the
scapulæ and vertebræ. When wan-
-dering it discovers a tendency to Cere-
-bral inflammations & uneasy De-
-lirium indicates affection —

When the abdominal viscera are
affected with inflammation, there is
a tension of the Hypochondres when
this is much increased a convulsion
takes place in the Vena Portarum,
and the tension prevail over the
whole abdomen —

"Pro the anxiety is greatest. The stomach from its great irritability is liable to many affections. A congestion of the surface will bring on vomiting. Its irritability generally yields to Mist. ver. in the 1st Place and secondly to opium where neither of these will do we conclude there must be inflammation.

The causes of inf. fever are all 2d vigorous and plethoric habits. Debility often induces fever. Miasma, Contagion act debilitating & sedative. Their function is on the nerves, & secondly producing a putrefactive ferment. Lassitude indicates debility. The eye forms the most certain indication. Convulsive motions or subsultus tendinum are marks of debility.

His motion becomes languid & appears dull.

the worst

The mind likewise discovers ~~not~~ affections. With a kind of fevers produce delirium. Delirium is owing to incoherent ideas when perfectly awake. It is the same in this case as dreams when asleep. A sleepy delirium is less dangerous than a wakeful one. A due association of ideas regulates the common functions. Hence involuntary stools be in delirium. The affections of light discovered in stercorum collectio, indicates a ~~[illegible]~~ great insensibility of the brain.

[illegible] Tremors from debility — The next, Attended with particular affected from a spasmodic crisis. This does not always be [illegible] painfull. An irregularity of the urine indicates debility. Symptoms of the tongue denotes illness — Coldness of the extremities

The extreme faint muscle at the back
of B. Pallid countenance, & anxious to
avoid the sun. Shivering & the heart.
& arteries & the face &c. Cold sweats
about the head & neck. Labourious &
difficult respiration not certain. Change
the voice, convulsions, & to allay irritation
give & repeat inhaling sweetly —

Hence the common fevers recent too pau-
cus, & pronounce all signs deceitful.
Inherent depletion. Recuperation, the
Physicians and attended with a perfect
use of reason, & fulfilled in mind. in
omin or judgement. Thus takes the
whole, & not a fact must be considered.
produce the pulse not exceed 120 within
three alarming, & symptoms we may
still be incorrect —

Intermittent or recurring. The
tongue here is dry, irritable, pain, dirt
in nails. The least cause of inflam: or
the tissues connective, the eye, mucous
membrane irritation. Red, dry, shiny
in are indicate delirium of typhomania
— Convulsions of brain, centre, sensi-
tivity with great irritation. Irritation
of terminals to the heart, uterus
ovaries, small of inner face —
Sudden, violent of urine indicates
frenzy. General delirium —
Loathing of animal food & particularly De.
ing for acids indicate putrescency, of attended
with a nauseous taste in the mouth. There
is a peculiar odor in the breath.
Odorous belching resembling rotten eggs. Repe-
tate vomiting, gastric frequent. Stools are

of Signs of Putrescency. Accession of blood depends on Symptom, putrefactive dissolvents. The menses are the only natural flow of blood. Hæmorrhages increase the flow of these — Discharge of blood from the kidneys is induced by gravel. In young people the nose most often discovers a crisis from the good blood. A frequent deep pain from the nose indicates a dissolved state of the blood. An injection of Albuginis ovi in the nose denotes mortality. Appearances Petechiæ proceed from an expression of blood in the texture mucosum. When large they are called Vibices, and when like the stroke of a whip, Vibices. The urine is high coloured, flatid. The appearance of this secretion is often false. Cranks, gaits, sweats

indicate great Putrescency.

[illegible]

in fevers. In fact, in this nature it
over the blood, which leads to the
increase of fever, it is then of
the utmost importance that the
the confidence in the use. For the
medicines on the bowels and intestines is to be
moved. This may be done by avoiding all
irritations, from improper action of the liver,
digestive and excretory organs, by the free use
of juices. Blood on rose at decium, from
the ~~tonic~~ a pleasing variety of amus-
ements is to be directed. The cutaneous action
the physician. The impressions of a
and heart should be removed —
Intestinal degeneration, that is the most trouble
the medicines for a healthy infection.

The increased heat in fevers will show
the tendency to collapse. In the bilious
fevers heat may be used to increase the
secretions. Warm fomentations, and baths
may be an exception to cold air in fevers. But
the small pox, putrid fevers, undeniable
rudiments have proved cold baths, revolting.
Motion of the body fevers are considerable
stimulus. In all fevers motion is injurious.
It heat of the bed in great inflam-
matories may be increased by the nervous
over the patient must be at the same time.
Pain, that on account of the degree in the
usual. The irritation in some
instances, the pulse of the stomach
requires the use of the bowels with
a gentle accession of pulse in the
bowels since the accepted of the tissues
in the start have of a still state

[illegible] the relative [illegible] of the diet
of people in different parts of the world
with a view of ascertaining what is the
true [illegible] which [illegible] will
be most [illegible]. [illegible] in different
[illegible] ~~[illegible]~~ [illegible]
[illegible] ~~[illegible]~~ [illegible] from
[illegible] ~~[illegible]~~ [illegible] [illegible]
[illegible] ——

Cap. 28th Drinks in
Fevers — In drinking the circumstances of
the patient should always be considered. For
generally all fermentants are injurious.
In the use of fermented liquors, their perni-
cious effects are most injurious. The most mild, cool
liquors should be chosen. Cold drinks are useful
in ~~[illegible]~~ inflam. fevers but useless in pe-
rious of putrid. The lemonade, or citric acid, is the best
drink of the acidulated drinks moderate

vol. Crudities in the stomach, inner a great
stimulus, and may be obviated by diluents.
paid no. Fæces may in like manner be remov-
d. Congestion of the bile, accumulation of
pitui juices, all produce fever & are ob-
viated by diluents. These observations with
metics & c. complete the antiphlogistic
regimen. Sedatives are next to be consider-
ed. The term Sedative is very general. It
may comprehend to the arterial system. Ac-
cord. the Class of Sedatives acting on the ple-
xus, acids are the first & best. These diminish
the heat, and quench thirst. They are pe-
culiarly to the salivary glands, and —
greatly refrigerate. They are powerful
correctors of Putrescency. They act as Per-
spiration & Urine. All these effects are
more to every mere acid, as mere fluid

vegetable. Vegetable acids are apert and most certain being less concentrated. Nitrous acid, is immediately powerful as the mineral. Oxalic, acetic, the chief neutral salts in the fol: acetic: tartar: citric & benzoic are of little estimation. Nitric is a powerful antiseptic. The modus operandi is hard to account for. The cortex is only curing fluction. At other times & the same temperature with the common atmosphere. All the neutral salts from min: or veg: acids, deliquesce, except the muriatic. Their determining power is on the stomach & bowels & the surface. Neutral salts are antiseptic refrigerating diuretic cathartic. Acids & neutrals are often known to irritate the nerves. The muriatic is most durable. Hence the necessity & caution in using them for pulmonic complaints

Heat is a powerful agent. Internal use is too doubtful to admit of trial.

Jany 29th

[illegible]

[illegible] in consequence of the extreme [illegible]

[illegible] systems in [illegible] in [illegible] climates.

variations, it never be used without

cautions except in case of an inflam-

matory nature — Nourishing

injections are to be well attended to and the

[illegible] diseases is to be [illegible]

[illegible] with [illegible]

[illegible] of inflammations. Cathartics

[illegible] are always necessary. A disposi-

tion to [illegible] indicates [illegible]

[illegible] mere habitations to it. The mere varie-

ties — Northern climates from the [illegible]

[illegible] summer in the equinoxes

[illegible] Bleeding is most safe in the begin

in fevers. In the decay advanced it is to be used with more caution — the fulness & pulse after the first appearance of the eruption is to direct us in the repetition. In Measles & Scarlet fever the judgment of a physician is to be the guide. In nervous fevers with great irritations & topical inflammation the venesection is most embarrassed. Special reasons in these cases are most safe & is to be used with caution. Where the brain is likely to be affected or lungs topical Blood letting is particularly called for. During the chills of a fever bleeding should never be practised. In the hot fit doubtful — a large orifice is most effectual. A recumbent position is best for the operation. All the muscles if possible should be relaxed. Bleeding is not advisable during the operation of a blister —

January 30th

Evacuations by Stool

Purgatives are powerful remedies. They prevent the excretions in the intestines, and of course increase their irritation. Yet in some cases stimulating purges are necessary. Purges are most useful in the beginning of fevers. The derivation produced by them is more gradual than by V.S. and not equal in reducing the Pulse. If continued, they weaken the system, and take off the perspiration from the surface. In great congestions of the intestines & viscera purges are always very beneficial. In bilious fevers they carry off the bile in the most natural way, preventing accumulations in the liver, & the

in putrid fevers in A. and gentle Cathartics are usefull.

Warm bathing powerfully relaxes the solids. Diluents are powerfull in removing fevers. Among these Water is the best, and forms the basis — This homogeneous liquid enters the minutest recesses of the system, and relaxing them. This may be used warm, or cold as the season or Disease may direct. It should be large in the quantities given. The Patients give the Diluents aqueous for the first 3 or 4 days of a fever at the rate of several quarts pr. day.

Neutral Salts, or saline Draughts powerfully remove vomiting & fever. Their injection is on the Stomach. Sal: Amm: precarious in its operation — Neutral Salts determine to the surface.

and partly from the practice of fevers. A calmer draught should be given before the accession of the fever, and must be given in some drops to be useful. If the mind be inconvenient, pill & medicine. Nitre acts diuretic when given in large doses. In inflammatory fever it may be used with Vinegar. The following julep is recommended. ℞ Pulv. nitri ℥ij Acet. opt. ℥ij Cr. tart. ℥iv succ. alb. ℥ss. M. f. Julep. ℥h sumend. ℞. R. N. This mode of giving Nitre takes off its nauseating effects.

Sweats produced by art are very seldom successful. In intermittents if used before the fit, they often change the fever into a continual —

2 An. 1. 31. A. Quotidian.

which the secretion is logical and moral, instantaneous. When fecces are ~~[illegible]~~ generally found to be secreted, and to be the secretion of, a certain and certain edematous inter-tissue of the perspiration, &c. and must be either promoted in the lymphatic system: or, whether to be secreted by the symptoms of critical excretions, fever, necessary, must in every given. In abdominal constitutions, in this latter character is needed. The fever under the effected with the least similar symptoms. The vapor of the bowels should be closely regulated, and the perspiration must need no interruption. The lower temperature should be kept particularly warm by fomentations &c. Greasy food is to be carefully avoided. The senna strummedi-tis and an frequent use of farinaceous

and be used and blankets instead of sheets.
and the patient not exposed to the keen-
ness of the cold warm the sheets may be ob-
tained by repeated application of dry and warm
linen with warm water. Covering the head
& neck with warm vinegar which must be drank
repeatedly. Should the violence of the Medi-
cine be required Opium is the best Medicine.
Cathartics & Laxatives are useful. Emetics
on the other hand should be well
considered. The Medicine is two fold.
1st evacuating the contents of the primae viae.
2dly Stimulating Nausea and Secretion.
The best Medicines for evacuating
are emetics, the bitters, salts, all the
stimulants of the abdomen & bowels, and
much of the same for promoting perspira-

They are most useful in the beginning of fevers. They evacuate the contents of the Stomach, tend to remove obstructions of the Viscera, and draw them to the surface. In congestions of the abdominal Viscera they prevent fluid accumulations, vomiting. In an immaturity of the Stomach, or Viscera, vomiting entirely is prejudicial. Full vomits in most cases attended with many disadvantages, as they determine to the surface only in a temporary manner, and seldom operate before the paroxysm. Hence the expediency of giving emetics in small doses, sufficient to keep up a nausea; for by this means the particles of the medicine work on the Pylorus, gently evacuate the intestines, and promote a powerfull revulsion of spasm in the extremities, and tend to remove any obstructions in the abdominal Viscera. The best time for giving emetics is just before the approach of the Paroxysm, or in the beginning of the cold

fit. This is easily determined in int: or remit: fevers
but in continued, the exacerbation is not easily
found. In these, the exacerbations happen twice
in 24 hours, viz: about noon, and in the evening;
but as these periods may be indistinct, the last
time is early in the afternoon. The common ro-
ots are Vt. E: Ipecac: Vin: ant: acet: sulphit: &c.
The latter stimulate the bronchiae, is a good
expectorant, but does not answer to excite a
significant nausea. This acts upon the same prin-
ciples as other emetics, and is too nauseating to be
used as a common emetic, and dia phoretic. Ipec:
is less irritable than V. E: consequently better
with weak stomachs. Ten grains is generally suffi-
cient for a dose & is preferable to V. E: for barely
nauseating the contents of the stomach.
Of all the preparations of antimony Emetic Tart
is the best, and liable to the few objections, 1/4 gr.
may be dissolved in a table spoonful of water & re-
peated every 15 minutes as a common fever, never
nauseate. Emetics are [illegible]

advantage at the approach of Paroxysms, and the beginning of fevers — It is found from experience ~~that~~ it is best not to continue them long a time when given to nauseate — continued long is apt to irritate the disease.

Cases of Internal & medical more frequent fevers. pt. Bleeders

The theory of these is very uncertain, & practice but little to remove the Peculiarities. Their action is chiefly on the moving fibre. They are first stimulant, producing pain and inflam. in pain the cause is different according to the debt of the Patient. After the Bleeding cases the similar cases, There has in inflammations in proportion to the redness. The last effect to which they are applied. By accelerating the tension & remove compression. By imitating their relaxing power in one part extended to the whole system. but their stimulating powers are irremediable unless confined to the skin. Hence their use in great [illegible]

In all fevers they are most usefull in the advance
and stage by removing foam and giving energy
to the system. In irritable habits, they sometimes
produce frenzies, and when applied to a
part where the cuticle is abraded. In the
latter case a piece of perforated pasteboard co-
ver the part, and in the former a piece
of fine lawn laid between the skin & the
plaster will prevent the effects in pro-
ducing frenzies — Besides of the tin, stone & brass
is the best, and most convenient, choice for their
application; where the system is gener-
ally affected, but in topical inflm. as near the
part as possibly.

Warm bathing is the next
external method. A general application of
this is attended with many inconveniences. Warm
fomentations applied to the lower extremities
are more convenient, and safe — This mode
must be continued one, or two hours, at least

one hour, if you expect to derive any benefit from it — This mode of warm bathing is particularly indicated where debility, and spasm affect the extremities —

Remedies to remove fever arising from debility, by giving tone to the system.

1st Application of Cold.

Cold when applied to the body in a tension manner act stimulant and tonic. Hence its utility in nervous and fluttering fevers, for restoring tone to the weakened system, and vice versa. Cold is applied either internally or externally.

1st Cold drink, is often decided by nature. Thirsts are greatly decided with respect to the use of cold water in fevers. 2d It communicates stimulus to the whole system, when taken into the stomach, tends to produce an inflammatory, we may pronounce it improper where this diathesis in any measure prevails —

Febry 4th The Blue Pill continued

[illegible] the fevers [illegible] never [illegible] [illegible] Dilutents it-
is acid drinks is doubtfull [illegible] [illegible] [illegible]
[illegible]. In [illegible] [illegible] [illegible] where
[illegible] [illegible] [illegible] [illegible] [illegible] liquid
[illegible] [illegible] ject. All fevers purely nervous or fev-
ers require acid drinks. Small draughts are
to be taken and frequently repeated —

Cold bath is usefull in [illegible] [illegible]

Some medicines give tone to the system
and are either fossil or vegetables. Bark is the
most efficacious. The action of Bark is [illegible]
[illegible] to the stomach since it [illegible] its
[illegible] to the whole system. [illegible] [illegible]
acts by restoring tone to the [illegible]
with a [illegible] nature to [illegible] inflamma-
tion and separate the diseased parts from the
sound [illegible] suppuration. All [illegible] Tonic is always
useful where a [illegible] don't prevail. It may be
used freely in all continued fevers attended

not probable, or premeditate. It seems
to have in Lancashire been so frequent
an practice, from mistaken notions, in
many cases it is perhaps necessary
to have the place examined before the Coroner. It may perhaps be thought
right to have a formal letter formally sent.
Mr Ellis's purpose and manner probably will
attract part of the day.

Feb. 14th 5. T.

Consideration of bark in fevers
continued. When intermittents are not violent
it may be combined with al: am: in re-
mittents of 5 x to + x for a dose with
an aperient, twelve hours. The saline mixture
with the bark combined with it. Sever-
al instances are mentioned of its, when
meet with an sufficient acid in the stom-
ach, for that reason it too uncertain to be
trusted to. Neutral salts are preferable.

Yet knapsack makes back fit easier on the stomach. Gloves act on the same principle. When back becomes tender, it may be joined with a little Rhea, or they possess an astringent quality. Gentian and galls are the best ~~[illegible]~~ ingredients for the Back. Dogwood, Oak Bark Gi may answer some order, when the back cant be had. Stimulants. The Serpentaria is a gently stimulant. Wine is the most effectual stimulant. In great debility with Delirium, Tremens wine & the other extracts are very useful. Round the delirium tremens are they are most to be suspended. The quantity of wine to be given in fevers must be regulated by the habit of the patient and the effects of it. Colaret, Rhenish are best. Madeira, and Sherry contain to great a degree of ardent spirits. If united to be done with cold water or made into whey &c ——

Antispasmodics.

Opium among these heads the first rank. It possesses sedative and stimulating properties. It is invaluable in all Typ: fevers, & may always be given where there is pain, and wine are necessary. It is more hazardous in all cases than wine. In a small dose it increases the action of the heart & arteries acting as a stimulant but in a large dose, sedative. In the last stage of fevers where Exam tends to keep up the disease opium relieves. It may be given with safety and efficacy in the hot fit of an intermittent. It promotes sweat, thereby greatly relieves pain. In Pneumonic cases it may be usefull when used with caution. Camphor, is very little known among Physicians as to its virtues. From gr. v to ʒ ss in severe Remitt: fevers given every 2 hours is beneficial, especially when attended with subsid: tend: of Delirium —

Much may be combined with Camphor in great Pain &c. where the Use of Opium is doubtfull. Of Animal Opium Dehelle is highly esteemed by the Germans in Fevers where antispasmodics are required

Of Acids is a safe antiseptic & stim: from its Acidity. in large Doses it tends to produce inf: Dicathesis — It is very useful in all Cancers — as its effects are transitory and of antizymotic; owing to the acid in the Stomach, it requires to be given in not large Doses, but to be frequently repeated. is antiseptic, and when given in large quantities it must be accompanied with Subacid Drinks, Juice. — So long a Use of it will be injurious. When once the Disease is subdued, from removed, and the great Acidity taken off, it may be discontinued.

Chap. 6th Marsh effluvia

Fevers are a grand source of Disease, being intermittent, remittent, & even simple effluvia perpetually tendency, but, produces putrid fevers &c. All noxious effluvia & every putrid matter in the world. When it scatterit in putrid water [illegible] a putrid fever, must be removed into a more clear air. Linnen and bed clothes immediately changed, tobacco & Drinks allowed, and frequent small repiles of fresh antiseptic diet. The Physician and Surgeon should be particular in avoiding contact with either the patient, or his clothes, as that cannot be avoided. The bowels, are to be kept opative and cool. The glands, and Urine to be carefully removed, weakness in the first stage, putrid fevers it will kill. This should be carried for as to remove the fever. Moderating the heat of the body by cold inner parts antiseptic. Large Decoctions of the marsh herbs, and a repeat of similar compositions —

Vegetable acids are most useful, and during the decline of the fever may be taken in large quantities. But if acids are used in the remote stage, they will not bear a sufficient quantity of the spirituous, for they cannot be taken in sufficient quantities into the stomach to do much service. Among the tonics peruvian Bark has been the best. This finishes the introductory & practical sections.

Putrid, or malignant fever — is improperly called the bilious, as it does not always appear. It commences with weakness, aching of the temporal protuberances with small pulse, pain, nausea, & symptoms. Weakness in the beginning generally ends in death, but in the latter stage, it is a good sign. This fever generally lasts from seven to fourteen days, often in an intermittent. It sometimes seems to be a confusion of the head, it more frequently

tion accidentally. When it attacks children; they it appears between the ages 12, 13, 14 & ages. It bears great affinity to the plague in some terrible manner with buboes, swellings of the parotids &c. Worms sometimes, there are in great quantities, overmouth out of the mouth. Effusions, blood frequently the place. It is, if sometimes with an intolerable stench.

Prognosis –

Gentle diarrhoea after 4, or 5 days is a favorable symptom, petechiae intermixed with malignant eruptions, not. Pulse rising on the use of wine favorable. But a hard abdomen after, profuse evacuations indicates a tension of the bowels, Black Urine is a most fatal symptom, if either of the mouth are unfavorable –

Febr. ytt. Antecedent & concatenate causes – Any cause producing debility disposes to death such as fatigued offensive poisons of the food &

in its effects with most acrid lend to emulsents, and
mostly lend to excite secretions. & for cause of pat
idiosyncrasy alts from their themselves produce a
inherence. Death is generally brought on by a mortification
in the bowels or brain.

The Cure is best performed by V.S.
usually in the beginning, and repeat symptoms
plain: a fever. but must not be repeated discretion
ally to avoid hart exquiring them are most advise
ble after the first bleeding. Emetics the most
effect kind, gentle cathartics, antimonials to promote
perspiration, Inflamed Diluents. critical days are
observable in fevered Fevers
worst need never
fored but may be accompanied Vinegar under unguided
no purpose. Vol alk: act powerfully on the
over irritation & stimulation. When the viscera is
cordials are necessary, but when are commodi
ous Vol: alk: is to be preferred. am.
with Vine are is regible. Opium sometimes
as a cordial, but bark is most eligible.
ters are not advisable in the first stage of the
mance, but if used ~~[illegible]~~ before the chalm is

Infectious fevers have been found hereafter in
most of the Barbados hospitals. Dr. Pillet. prescribes
a mixture of troublesome or small Cases at first: the
administration of cordials is to be diligently attended
to. Great pulse tend. warm ointments and red: are
applicable to inflammations. Sweatings, the carotids
should be occasionally fomented, and tend warm some
warm broth with cinnamon is good to check a
diarrhoea. The pectoral tea to be
sweetened by Doctor powder in small doses
sometimes &c. Worms must be attended to
either occasional. In young children, wetting
immediately with bark, such as immediately
vitalizer &c. Camphor rub in the mouth
and presentation during the time of vomit.
the tartar, or a Hartshorn, relaxing
cow. Typhus or nervous fever.
Some must be taken the fluid diet
bark, some depletion for 8 or 10 days, seve-
ral times. If one time or more repeated p
[illegible] the 2d day have bowels about the low
[illegible] the blood is not to be recorded in the

The patient commonly dies before the 14th fortnight
from the 1st. The disease seldom terminates
in an intermittent.

Prognosis

Diarrhoea on the gravest nature
mirrors of the secretion which should not intervene.
and the fever continue above 20 days in adults
children's miliary eruptions are of little importance
Stools are unfavorable. Pain in the
head or delirium in the beginning are very
favorable symptoms.

Febris gastrica

Commonly simple. It may also be called
from general or debility. No distinctness, nor
specific symptoms. The pulse is low, irregular & small
contracted. Inflammation taking place in neighbouring
parts be owing to some local affection.
In the intermittent form quinine to be most
beneficial. The patient must be supported
by cordials, stimulants & mild acid. Cold
to the head may be relied by cupping

Bowels. A gentle emetic is necessary in the
beginning, and to be repeated occasionally in fran
patients. Aperients, require gentle emetics & Rest.
Diet must be light, and very nourishing. The Drink
should be frequently prescribed in small quantities.
Wheat is the best kind of wine, and cordial. Port
wine which will be recommended by some Physicians.
The Patient's Head should be bathed frequently with
warm Vinegar & water. Vol: alk: is useful when
there is a sudden Flimsiness is required. Aq. Amm:
with the Alk: tincture is a good medicine.
Much green in Colic of 10, 15 years is useful
in great nervous affections. Semicup. or Bad.
are preferable to Blisters, except in the Pettes stage
when the vis vitæ is exhausted. Blisters are best
to be applied in the morning — they must be
repeated. Sinapisms are serviceable when a
sudden flimsiness is wanting. Much is useful
in colliquative sweats, You require also
if the fever should turn putrid. These sweats

should be carefully checked. Mr. Lawrence opinions of medicine. In either the parts should be all parched and white sometimes so pierce as to pierce and fuse —

Inflammatory Fever —

1st. Proximate cause of inflammation is obstruction current of humours. Injury, irritant, &c. the capacities of the vessels with a spasm of their themselves take place. Inflammation can be called action of the vessels, for it affected the humours. Predisponent cause is a negative, if the system called low, which is often the occasional cause.

Theory of Inflammation

In the cavities inflammation or gangrene when the spasm and obstruction are removed, it and the relaxation. This spasm arises from distension. The humour is owing to an effusion of lymph into the cellular membrane. This even from Part. 4th Immediate of mft. is followed in

[illegible] frequency of the pulse bleeding, and
should take place in the full state of the disease
and immediately after the necessity of bleeding is
felt. The indications of cure in inf. are 1st to diminish
and the increased irritation of the system 2d to remove
the obstruction and [illegible]. The 1st indication is fulfilled
by the [illegible] regimen. Blood should be drawn if in
great superfluity the pulse [illegible] is more than
usual rare & [illegible]. The tendency to [illegible]
bleeding is only necessary when a pneumonic is
apprehended. Purging is not generally necessary than
harder to keep the bowels open. Use in inf.
the usual steps, which it may be necessary to
repeat occasionally. In answering the 2nd indication
[illegible] astringents may be used such as Sacch. Sat.
Lic. Goulard is too astringent in his encomiums
on his extract. This should never be continued long.
Wh. Min. is very good in spasms, and convulsions. Warm
fomentations are of [illegible], till tending to inflammation.
Camphor is a good antispasmodic when used in a
[illegible] solution, and all in rheumatic, and arthritic
pains — Blisters are powerful in topical complaints.

February 11th

Inflammations are divided into cutaneous, mucous, vascular. 1st Ophthalmia is idiopathic or sympathetic. Idiopathic arises from an afflux of blood to the conjunctiva. The veins are much dilated either in the sclerotica or in the conjunctiva lachrymal. The Ophthalmia humoralis is most frequent, and is located most generally in the sclerotica. The eyes first is attended with a fever of humors. The superficial affects all the membranes of the eye. The Cristalline produces little pain in the eye. Opthalmia affects the cornea with blisters. The sebaceous glands become inflamed & ulcerated. The Gleet arises from gum matter flows from the venereal venereal. In the eye lights is to be treated. Bleeding at near the part affected, fomenting the sclerotica in the eye with warm, or the application of leeches should occasionally be above. Purging is useful in most cases where there is no fever. Blistering is most useful, where the hair is offended to the forehead,

and Temples — but should never be practical.
Cutting off the head & ten pieces relief — warm Cata-
plasms are injurious. Application of cold water
is useful. The face to be immersed, and the eyes
held open. Cata plasm with fresh fat may be
applied to it, and to be repeated as they become
warm. Mercurial ointment is useful in
inflammations, and affections of the nerves, and may
be rubbed frequently in the night while the eye
lids become glued together. In inflammations
the Cancerous lie requires the Hiccies to be
attracted ——— Feb.y 1st. Visceral obstructions,
Pleurisy and Peripneumonia are the most frequent
internal inflammations — Pneumonic inflammation
is, 1st. In the mucous membrane of the Bronchia of
lungs. 2 in the Parenchyma or cellular texture; 3
the pleura, or membrane lining the thorax &c. The
two latter are generally blended. Both these diseases
are blended with fever, pain and expectoration, but
can be distinguished by their symptoms. In the first
the pain is acute, and fixed to the side, in the 2nd

pain is obtuse and fixed between the shoulders. In the imp.t the patient lies constant on his back; in the pleurisy on the side affected. A dry cough prevails, in the first, and a moist one in the latter. The fatness peculiar in Peripn.y is seldom but an absence of acute pain. An effusion of serum in the cellular membrane produces difficult respiration. The expectoration proceeds from a solution of mucus in the 4 time we see. Great turgescence of the face indicates an effusion in Peripn.y. When pain increases and pulse becomes softer with frequent rigors we judge there is a suppuration. The next termination is by gangrene. This is judged from the decisions of the disease to instinctive — after taking place there is a sudden intermission of strength, a gain of sense and placid delirium, the most fatal termination of Peripn.y is when an effusion of blood into the lungs, the lungs increase, and suffocation —

another termination is by an extraordinary suppuration of serous effusion into the cavity of the throat. Excessive bleeding may induce these —

Bleeding is the principal method of cure. In ~~[illegible]~~ Croup bleeding is improperly neglected. This Operation is most effectual before the 3d Day. between the 4th & 7th Days there happens an accident, emission of the symptoms, owing to the effusion taking place — & the return of the symptoms, take place again better relieved by V.S. — Velpeau p. 13.

Bleeding relieves by taking off spasm and congestion & relaxation. — Bleeding often causes a suppression of effect. — The habit of the patient & the severity of the symptoms are matters to direct in the quantity of blood to be taken away. The adhesive nature of the blood is an incorrect. This the nature of the disease few patients can bear the loss

[illegible] great readers should be
informed of the importance of blood, or a great
[illegible] quantity. The Physicians say the disease should
be treated moderately open. About the 4th day a
[illegible] appears over most of the body. It will be encou-
[illegible]. Emetics are unnecessary in the first stage
[illegible] disease. Nature attempts a cure by the V.E. or
[illegible] in bottles. There are the best prescri-
[illegible] except in the bottles page 1st. The Dis-
[illegible] effaceable in a few days. Consult
[illegible] Cinchona or the Jesuits
[illegible] bark and cathartics are
[illegible] the best cathartics are
[illegible] irritations and mucus removed
[illegible] are useful. There are [illegible] on the
[illegible] in their descent, and [illegible] therefore be
[illegible] in small and repeated doses. [illegible]
[illegible] of service even where the pleuritic
[illegible] adhesions always the violence of cough is thereby retaining
[illegible] more acrid matter in the lungs till it becomes thicker more bland.

Febry 14th complained

of most excessive painful pain in inflammation of the mamæ yesterday. Pain more severe than

remembered. Pain not probable, when, indeed, general internal inflammation. The, severe, phlegmonous

inflammation of the glandular interstitial herpetic local at the

time when the breast are diseased our ignorance

of the Method, Cure we must first obviate inflammation & then secondly take off the swelling

& hardness. & thirdly restore the secretion

& milk diet, with strict abstinence is most

to be depended upon. Bleeding is the most sure

first remedy in removing the first, second and

third. Local heat is to be applied as low as

will increase as much in two weeks and

warm flannels, as soon two months in a fever

Bind should be equally applied against. Flannel

should be worn next the skin. The other bandage should be

soft and comfortable. & of temperature given to be kept

warm: is best. Blisters & issues are useful —

Pulmonic Consumption continued.

The next consideration is to restore the perspiration by Exercise. The mode of performing this should be varied according to circumstances. Spitting of blood is often relieved by Journeys on horseback or carriage. Voyages to Sea generally most effectual. The Nausea they first produce, the constant equability of the exercise & the elasticity of the air all tend powerfully to increase inspiration & in consequence the appetite. No certain prognosis can be formed in this disease. Bleeding is always necessary. The quantity of blood to be taken must be small and frequently repeated. The diet may be light & nourishing. The determination to the lungs must be taken off by blisters & medicines respecting &c. Exercise should be accordingly to the strength & state of the patient & medication with regard to medicine the general

[illegible] commencement.

℞ Mag. [illegible]
Pulv. [illegible]
Extract. [illegible]

[illegible] taken once a day. Calomel given in [illegible] of the [illegible] in these pow- ders without affecting the mouth. The fæces [illegible] to the surface, and the magnesia ob- tunds those acidities which are so frequent [illegible] the stomach. In [illegible] or injurious [illegible] the mercurial [illegible] necessary [illegible] weakness of the stomach [illegible] may be given. [illegible] the [illegible] mouth is not useful. [illegible] Balsams increase flatulencies [illegible] load the stomach.

Menorrhagia

[illegible] [illegible] differed from the usual standard. [illegible] with pains, debility [illegible]

[illegible] in more cases careful
[illegible] an intermit habit. Repeated Pregnancies
[illegible] frequent venesection will bring them on
regularly. Strengthening opinion, and the in
[illegible] of Purgatives required.

[illegible]

If the patient be subject to the [illegible] pleurisy
[illegible] the complaint be [illegible] it should
[illegible]. The Cure is often difficult. [illegible]
[illegible] when a plethora prevails. In that
[illegible] it necessary to assist the [illegible] Dia
[illegible]. Venesection is necessary, but during the Pam:
[illegible]. Cold bathing after symptoms of Pleurisy
[illegible]. All tonics are their improper. Regular Venesection
[illegible] be avoided. Women distressed with the Leucorrhœa
[illegible] [illegible] their Children. There is a Regularity Dia
[illegible] [illegible] to be observed. Pain well
[illegible]. Blisters to the inside of the thighs are
[illegible]. The exhibition of Astringents are attended

the various effects. Inter mence rum is the best. It may be given in pt. of a pint every hour or 2 hours, should it nauseate or make pains in the back. Rum under edit. det. be will answer.

Leucorrhœa.

In various places. The disease are not quite known. In the present instance it is considered a mere excretion of a serous or mucilent nature from the, & as respects with the Menses. Is connected with the Catamenia sometimes preceding often following them. They begin most commonly ~~frequent~~ to be considered subject to frequent menstruations. After the flow of blood ceases, the flour albus from the laxity of the vessels comes on. Pains in the back & loins with a feeling in the stomach attend the complaint. It may easily be distinguished from ~~from~~ the gonorrhœa, in less over mild. It from the discharge depends upon a laxity of the extreme uterine vessels it may always be accounted for from the Doctrine of Menorrhagia.

From these principles the Cure is easily deduced. When from a Phlog. diathesis the usual treatment to reduce this, but otherwise tonics are necessary. Balsams Demulcent astringents. Injections are useless. Magnesia with steel & cold Baths bid most to be depended upon.

Fever 18th Pneumonia

Hitherto Cases inserted in just by its

ffects the large joints particularly ~~[illegible]~~
llowing the tract of the muscles in the pain. In
ant produced from an external cause, & seldom affect
s below the wrist, & knee. Rheumatism prevails in
climates that produce sudden vicissitudes of heat & cold.
nce it proves most frequent in spring & autumn.
is the principal remote cause of rheumatism. Heat
duces rarefaction of the fluids & cold a contrac
tion in the vessels hence we account for the com
monest rheumatism from the removal of
em before laid down. The stiffness & pains
[illegible] from a general P. Diathesis.
From the preceding acct of the Disease we
see that the Cure requires the anti phlogistic
imen. Runnet whey is a proper diet. Bleed-
s the remedy. This may often be too large,
d should therefore be practised with caution.
Great bleedings apparently not injurious
ring the violence of the Disease, yet by
ilitating the system they leave it so

Tinct. Arnicæ. Tinct. Cinchonæ. Topical medicines
that are practicable, the C. D. is entirely
in, saint are or unnecessarily fixed, they are usual.
Tice in recent or chronic rheumatism.
Warm fomentations are hurtful when C. D.
prevails — Rubefacients. Rheumat. contracts
Rubefacientia are employed in the cure of rheu-
matism. Among these the Vol. ol. is best, to be
applied with oil in the form of liniment. When
C. D. prevails they are all injurious, except
blisters which have safe, & effectual in topical
~~application~~ affections. Purging is of little conse-
quence except in inflammation of the head, when
the bowels be drastic acting laxatives. Diu-
retics is useful & properly supported. Pro-
ve injurious. To effect this Sweats, hot
the best perspiration yet invented.
Nostrums of Opium neutral salts, & Ipe
mele. The dose of Opium should invariably

amount to three grains, and the whole not
exceed a scruple for a dose. It should be
given in the morning, and the patient to be
confined in a flannel jacket, & blankets alone
without sheets. The time of its continuance should
not be less than 12 hours, & in obstinate cases
may be continued for 2 days & nights —
medicine after taking the medicine neither
food nor drink in solid form is lawful to give it
w. Food the patient may be continued above 12
hours, the dose may be repeated, tho' in smaller
quantities. The time for giving ~~food~~
drink may be known by a slower pulse, when
it may be added, or a little wine. Warm
cloths may be applied to the feet. The
feathers should not be too heavy —
Extremal heat to a great degree is hurtful.
Proceedings are not to take place till
the P. D. is diminished. When anxiety
pain are great the bleeding may be lighted

the spiracles to the body. Back, in the
latter stage of the Disease when the system is
much reduced, the symptoms put on an intermit-
tent form; may be useful. Nerves of Jaw &
face, or to afford relief by Dr. Shelton.
Convalescence whose time depends on
tonic in the bowels affected. Friections
with Cod liver oil, or succession homelac la,
warm bathing with covering of flannel
the feet are here necessary. Rubefacie-
tion, particularly Vol. Lin. Volatile are
useful. Gum. Guaiac given with Ol. Ric. or Ol.
Copaiv. to act to heat the bowels open Potas-
ne to the surface, where necessary.
Mercurial Ointment, and mercurials
internally prove gentle Ol. Jalap. Jeme-
ni's. ——— Epidemic Dysentery
contagious diseases frequent in Camps
and hospitals. Not distinguished
from Spasmodic and from the Fever

hinge retained, with tormina & the bowels fa-
cent ejections, sometimes, of bloody or white
ter. The mucous discharge, much effluvia,
between the alternate, an intermittent
unnatural fever. Dry summers have the worst
of bilious diseases, and moisture tends to lux-
ure dysentery. The symptoms evidently indi-
te a pecular irritation in the bowels, ar-
ising from the increased peristaltic motion,
which is communicated to the secretory
ure the attention of Medical Gentlemen
ents.

The Method of Cure then must
ti obviate the constriction on the bowels
ramulate the intestinal canal, pro-
ilities secreted in the stomach, in the
ctic nature of service, and the emetic not
ate, commences a full course of physick, with
and succeed its operation, and an anodyne of
itive. The next day the disease will come

shall be repeated every 2 or 3 days, after which the Q: Sanaved
may be repeated again at night. This course should be
continued until the course of the disease, and
other circumstances, may be such as to warrant a deviation
with the patient, but they should still be in
small quantities. Offensive expectoration, bowels
may be effectually removed by the use of the
Sulph: Magn: Tart: in large doses. Nitric acid
will make a wholesome palatable drink, is
Demulcent, and light diet should be used.

As this is the general treatment, the
exceptional occurrences must be dependant. In
hot, and haggard cadaverous appearance
bowels may be used. Hydrocyanic acid tinctures
may indicate a free use of acids. In robust
persons Castor oil with Spt. Lavend: Comp: Liq:
Amm: water will give relief; also Bot:
Ether: Camph: may be used. In violent
cases blister to the abdomen, and warm fom-
entations in all stages of the disease. Vigilant

the great symptoms of debility come on with the type of remit. or intermit. fevers. the bark with elix: Vitriol may be used with success.

He finished the course of the season, without entering into idle speculations and fanciful theories, but has only been subsidiary grounded on experience. A practical knowledge of fevers is more useful than an imperfect knowledge of every disease we have been particularly pointed.

The Doctor concluded his lecture with an address truly pathetic. He bade farewell to the class in an affectionate manner. Observing to us that a base attendance lectures was not sufficient to complete a Physician; or under a man eminent that sphere of life, where his station placed him; that indefatigable application to study, observation are

pecia cy. Yet with moderate abilities be
stowed with success. Within every hap-
pie their wants can afford, he dismissed
with enjoining strict diligence in
rising a superstructure on the fine
ent foundation —

Finis —

Jany 17th 1784

[illegible]

[illegible]

[illegible]

pneumonia, fever, and the disease from the
Contagious cause — Fevers are either
idiopathic or symptomatic, natural or arti-
ficial: fevers are commonly specifically
distinguished by an eruption —

Febrile Pyrexia —

Febrile pyrexia is totally
spurious, without morbid cause, and the effect
of a cause — It is never accompanied
with Pyrexia is rigid & intermittent.
Febrile pyrexia is the least beneficial
of artificial fevers as natural,
metastasis and antecedent bad —

Jany 19th
of Cyrexia —

Under this class is comprehended all febrile
fevers, and the Dr. observed that three fifths of
mankind die of these complaints — for a particu-
lar definition of Pyrexia see Cullen's nosology.

Order the 1st Of fevers -

A fever is preceded almost always with languor, lassitude, and other signs of debility without a primary local affection —

Class 1st Intermittents —

~~Intermittent fever~~ Is a fever returning with paroxysms with an interval at least with an evident remission in respect of, and attended with a considerable exacerbation, and for the most part returning with an ague or Chilliness —

Genus 1st Tertian.

Returns with similar paroxysms with an interval of about forty eight hours —

This fever frequently differs in its returns, also in symptoms — For a particular Description of the different sorts of tertians. See Cullen.

Genus 2d Quartans

Returns with similar paroxysms with an interval of seventy two hours —

This fever as well as the tertian varies in its returns, and symptoms — for particulars Vid: Cullen

Genus 3d. Quotidian —

returns with like paroxysms ~~after~~ with an Interval of twenty four hours —

It also varies in its returns, and paroxysms, and frequently is only a partial affection. such as periodical headaches, and periodical Sciatic pains, all which cases yield to the exact same treatment, as the regular quotidian —

Sect: 2d. Continued —

This fever without an intermission, and continues almost without any remission or exacerbation —

Genus 4th. Synocha —

This fever comes on with inane and heat, pulse frequent, strong, and hard: Urine red, and the nervous system very little disturbed. it is chiefly confined to the arterial system —

Genus 5th Typhus

This fever is of the nervous, and putrid kind and is contagious; it attacks with an increased heat of the body, pulse small, weak, and for the most part frequent — The nervous system is much disturbed, and the strength much diminished — This fever has its seat at first almost totally in the nervous system

Genus 6th Synochus

is a contagious disease, a fever compoised of the Synocha, and Typhus — In the beginning Synocha, and in its progress, and towards its last stage, Typhus —

The Proximate cause of all fevers debility, spasm, and a reaction of the brain — The body is composed of arterial, and nervous System, and fluids — The Synocha is seated in the arterial,

The Typhus, in the nervous System, & fluids —

Contagion acts, & simulative on the nervous System, & sedatively on the nervous, and septically on the fluids —

The remote cause of fevers is Miasmata, and by assimilation with the fluids in the body, become contagion —

Vegetable matter, as well as animal, has been proved from experiments to produce these miasmata —

There is peculiar kinds of miasmata — such as will only affect mankind, and not animals — and vice versa — also some kinds affecting peculiar constitution — and different ages —

This Miasmata has many sources, from whence it may be induced, such as the drying up of Ponds, Marshes, Putre-

faction &c. &c.

Miasmata may be destroyd by the follow-
ing Things. 1st by frost. 2d by rains, 3d By
fire. 4th By Trees. 5th By gun powder, or
sulphur, 6th by Vinegar, and seventhly
by fresh Air —

It is found by observation that in the
neighbourhood of stables it is always very
healthy, owing to the exhalation, or the
flying off of the Vol. Alkali produced from
the putrefactive fermentation —

It is also obvious that the free use of
Liquor & Wine, are great preventatives
against the Plague, and all pestilential
disorders — Jany 20th

Cognosis of fevers —

This leads us to say some thing respecting criti-
cal days — The original type of all fevers

either tertian, or quartan, and let the fever be of either nature endeavors to relief herself on these particular days that specify the type. Fevers that are from their continuing without remission, much remission and an remarkable exacerbation, called continual, have been remarked to be always of the tertian type. Hence the fevers continuing of this type till towards the last stage, when nature becomes exhausted and seems the quartan type, and fever to redresses the disease ~~[illegible]~~ with an interval of seventy two hours. Hence the critical days are agreeable to the following Rules: 5, 7, 9, 11, 14, 17, 20. Now on those days the Physician should be most diligent, and attentive in watching the

Efforts of nature, as she at those times most exertive — By paying attention in this manner, and minutely [illegible] the following marks we must be immediately led to form facts, and to represent the effect other gate of physicians — [illegible] a Humoral cause, or [illegible] [illegible] alternate motion of the [illegible] in [illegible] Upon the latter [illegible] more [illegible] The pot is much [illegible] [illegible] a trembling, the tongue when the patient [illegible] the pot without [illegible] indecisiveness [illegible] the pulse. Opinate pain [illegible] and vomiting, into convulsions, relieve [illegible] and [illegible] hemorrhage take place, [illegible] at times [illegible] with, and that with an abstinent difficulty. These signs producing [illegible] [illegible] voice.

and a contraction and dilation the Pulse, are all very unfavorable signs — but frequently are known to recover from them — therefore the Physician is still to continue his endeavours — until the enumerated symptoms denote great debility and weakness. Hence the urgency of signs favorable —

Method of Cure of fever in general — 1st to moderate the action of the heart. 2nd to remove the causes ~~to the~~ ~~obviate the effects of debility.~~ ~~[illegible]~~ and 3d to obviate the tendency to retrefaction or Putrescence in the Bulbs or Delirium —

2d Stage

In first indication must be answered by all the means which diminish the action of

[illegible] and Air &c. — [illegible] fundamental
[illegible] of the Thermometer which
[illegible] the [illegible] of [illegible]
[illegible] — [illegible] [illegible]
Whether or blood [illegible] — I have a
[illegible] that [illegible] [illegible] [illegible]
and young people — but that [illegible] it
[illegible], and would be [illegible] injurious —
in my [illegible] [illegible] it is [illegible] in all
[illegible] and may be ~~[illegible]~~ would at all times —
Some doubt [illegible] [illegible] which will
[illegible] [illegible] [illegible] [illegible] better
[illegible], and ~~[illegible]~~ [illegible] is rather indicative —
[illegible] many ~~[illegible]~~ [illegible] [illegible] more de-
[illegible]mental. and [illegible] the quantity ~~[illegible]~~
~~[illegible]~~ men treated would be [illegible]
[illegible] [illegible] [illegible] [illegible] for
[illegible] way, [illegible] [illegible] [illegible] ounces.

frequent notice, perhaps in bad cases
such as — Women during this period
are found to be commonly a more
plethoric state of the blood than
in general in phlebotomy. The blood
on the surface, from the cause —
and it is probable that for the operation
of bleeding, the more effectual. In
local affections near the spot such as
sprains, bruises, &c. it most beneficial —
In fact, rendered much more favourable
by having it done in an recumbent posi-
tion, and in all cases — The humours in the
low blood — it also necessary — in keeping the
mind in the perfect tranquillity, as when the value
is made. Blood appearing after being drawn
to a crust resembling a sand box, and floating
rather the greatest in diatheses. After the

allowed the venæ, the higher degree of inflammation.

Observations on Purging in inflammatory fever — The first thing to be done in this case is to open the bowels, and this with mean as are the least irritating and to keep up only one stool in the day, which must be particularly attended to after a few days of the disease.

On Diluents —

Water in diluents is the basis — and is peculiarly necessary in fevers — nature plainly indicates its use by causing a constant thirst in fevers —

The Vg. acid, and the simple subacids of diluents diluted with water is an excellent drink in fevers — For the particulars of the central facts, and Indications — V. Cullen.

sweating is the effect, and not the cause of termination of a fever. Hence not a natural termination — partial sweats never critical — Fomentations in promoting vitia, & horsis is very serviceable — pressure pediluvium, when the patient is weak. Amert ~~[illegible]~~ be applied to the lower extremities — ~~[illegible]~~ sweating ought to be encouraged on the critical days — Dr. Dover's powder is a powerfull sudorific — It is composed of Dr. Ipecac. & V. Tart —

Jany 22?

A fourth means of determining to the surface of the body, and thereby taking off the spasm of the extremeties, is by the use of emetics — On the choice of time, Cutis. mot. claims the first place. Particular reference to Cullen Synopsis —

Gr. Pharm. Infusion of Senna is 5/6
pint Gr. C. with grx. of R. Tabr. both the ingred. amount
and Pte. may be increased or diminished fro
mata lear pro pte manufacture. always
must premised Vin. ect. — Blisters
not to be used in mft. fever except topical Inf.
ammations, till the Inf. die a Metis is
moved — Their chief use is as acute pharmodies
we act in a great measure by sympathy.
you wish ones stimulating and evacuating
effects from blisters, you must let them
main on, after having drawn off Vesi;
ena. Nitopical affections as near the
not as possibly to be applied — in other
cases, arms, or legs.

Cure of Nervous Fevers,
Typhus. For particular, consult
Cullen. His to be expected by tonics & stimulants.

such is always in proportion where any of the
inflam. Death their inevitable. It matter first given
rather injurious — but then has a very
irrecoverable — Wine is one of the first re-
medies in this fever. Madeira is the best
kind by far, and the older the better
not being liable of being decomposed
in the stomach. Lisbon, sherry &c.
are much inferior to it. The
tartarized Wines & Hock must be avoided in
all occasions, bottled Porter & Porter
Porter and good Cyder are the best accep-
tances for Moderate Use. The Wine be-
ing best given undiluted. The Delirium
arising from a tonic & the
Pain yields to the Use of Wine
Favorable Symptoms Recovery
Spontaneous and sudden sweats, appetite

stomach forewarns them that his illness depends
upon it. The breaking out of heated up
blisters or any spots coming on the surface.
Dryness of the tongue cracking.
heat being wind. The yellowness of the
[illegible] countenance not forbode bad.
[illegible] is always useful where wine
[illegible]. It is useful to check diarrhoea
and promote sleep. Delirium and espe-
cially the maniacal kind is most
effectually cured by its use. never to be
used where any inflam: diathesis exists
or the particulars of the Pericardium
[illegible] obviating and correcting the tendency of
the fluids to putrefaction. See Pulson.
Evacuation of bile in putrid fevers is
of the greatest importance. This to
be effected by vomits or purges.

there are
~~[illegible]~~ most proper in the early stage of the
disease and after that it is done, Bark is
to be given with a liberal hand with
cider and Wine — and when the stomach
rejects it to be administered freely
in glysters, least it pass at a time with
one dose. i.e. by way of retaining of
it — the use of the Sol. alkali from
5 grains to 20 at a dose every 3 hours
is exceedingly beneficial. Spreading
both limbs & bathes is very serviceable
to the air. Clean linen &c. &c.
on left Cutaneous. Blisters is very bad
in putrid fevers — The convalescent state
from putrid fever is a state of disease
and claims the attention of the physi-
cian — relapses are best obviated by
diet & Medicine. Porter, Oysters chocolate
&c. and Huxham's Tinct. of Bark.

Lect. 23. On the cure of intermittent fevers.

For the particular method of treatment consult Cullen's Synopsis —

Observations —

There are two symptoms that are almost pathognomonic marks of an intermittent fever 1st long cold fits. 2d discharge of bile — The latter not so certain, but when combined together are almost infallable —

There are some cases where evacuants are necessary, ~~and~~ vomits are improper in such cases as pregnancy. Disposition to haemorrhages. Affections of the head &c. &c. in those cases purges will answer the intention —

In seasons of the year when bile dont predominate, evacuants are unnecessary —

There are a number of medicines known to cure this complaint such as Alum: dogwood bark, blue vitriol Spider Web &c. &c.

But Bark is the most infallible — In the
loice of which, the red kind is preferable,
and the coarse, and large pieces —
There are some cases that the bark fails;
it is late in the fall, or towards the
middle of December, bleeding frequently
ures, as there is generally an inflam: Di-
thesis prevailing — in which the Bark
n not only ineffectual, but injurious.
But where the bark has failed, and no
Phlogistic Diathesis exists Blisters
re sure to relieve — Prophylactics are
Essentially requisite Human's Lunch:
excellent. Bark in substance also.
The Cover always to be given on the tech
m, or quacentan Days conformably
to the type of the fever.

Second Order of Cyrexia — Phlegmasiæ —

Are given attended with a redness, the internal
ain or topical pain, together with the pure-
nt, some internal injured, and blood being
ation, petting on a butt-end, constituting a
hlegmone excitatrix — For the Proximate
nd remote causes different terminations,
ure, &c. see Dr. Cullen.

Of Capital inflammations

Sect. 7th Phlegmone.

is a red, with redness, an external heat
nd painful tension —

Under this genus of Phlegmon all
taneous external swellings are
ncluded such as boils, and all pieces
Erysipelas, affections &c.

In Phlegmons no better Poultice than
Bread, beer, and lye boiled together

for particular acc.t of all recipes & Prescrip-
tions remote, & immediate causes, & meth. medend.
see Cullen —

Quantities. Bread and milk & water ad lib.
in my case, but in Burns — the Aq. fo-
min may be used to wash the part as
well as be combined in the Tinctura.

Case 8th Ophthalmia.

Is redness and pain of the eye with an
abundance of tears. Consult Cullen
& it is attended with Phlogistic dia-
theses. Local bleeding, leeches, & vein is over
full. In this case scarifying of
the internal membrane of the eyelid —
frequently relieves, when it resists other
applications — Purges, and blisters bu-
ca Poultices &c. Bread milk & Aq. ut. m.
&c. Gentle and repeated shocks of Electricity

When Opth. continue incurable, are very serviceable — When a dyspepsia affects the Eyes with a pruritus attendg. it, let relieved with an ointment made of Ung: Calc: and pure green butter — to be used in wet rubbing the Eyelids with it —

When Opthalmias are symptomatic — they are only to be cured by removing the primary affection

M. Gr. Cinnabris —

An increased fever, pain in the head, anxiety, redness and eyes intolerance of light, & sound, Watchfulness fierce delirium, or periodical mania —

Vi. Idiopathic, and symptomatic — The first is a rare occurence, the general causes are from external injuries — Measures, Vi. Vi. viscus, and large with insensibilities. vide Cullen

Cases of

Dean: D.r Cynanche

In the Definition the Sudden impediment

of pec: pt Cynanche ton: illaris —

it affects the mucous membrane of the pharynx

and especially the tonsils with a swelling of

them, accompanied with an inflam: fever.

it is most commonly brought on during

or particular the Cynanche Cynanchia.

so the first thing to be done is Ven: Sect: then

purge the liquid kind — and if the fever

should become of the Typhus kind Blisters

and the throat are very serviceable —

the last resource for relief is Tracheotomy.

Rec: Dr Cynanche Tonsilaris

Gather the tonsils and mucous membrane of

the fauces with a probe or a pair of

scissors, with a dressing forceps, with

the instrument in the other, with a

pain in a beautiful patient that in the
philosophical — It prevails chiefly in the lin-
ing and pine — but gives the injection of it
pain and small discolors not without
a attached with it — and the most distinct
is cold, and a chill — & sometimes
it attack — in fever more common
the inner ins — but encreases and
times more distinguish it from the pearl
ness — the latter attended with pain
pass — not commonly the case
into the chest — and receiving in the
summer, and Autumn — and the fever
intermittent not so much a tertian tenden-
cy — more st, ie, ment — int, ing
the use it sometimes — Tuesday min: which
will both excite a vomiting and stercorac-
ceous that bathed with pain to
prevent it running off too — —

the Pach. pare cont. one letter in the
title Tax — punctuation at page 7
warm the in ear mus be and to a contra
the seen should be at the reversing line
intro per the arts —

Spec: 3: Cymanche pachycia —
what is generally known by the Fiddle
will from the word scrape signifying
to Vomit — Facial ill. of children —
mers with a difficult respiration — this
now in fever — hoarse voice — barking
cough handle no fever in the pacces
Species — repetition from affected
tissues with fever —
There are two kinds, one accompanied the
the Spasmodic — the first to be
used alone by Ramsay — this comes
slowly — the Spasmodic more sudden
necessitates to Ven. Sect. emetics & antispas.

Spec: 4. unwashe Diarrhœa. For Definition see Cullen's Synopsis to be treated of at the end of Fillaris.

Spec: 5th Cynanche Pituitosa, Common Cold known by the name of the Mumps. for Definition v. Cullen. The parts are to be kept warm — and strict abstinence to be observed & warm drinks or a purge, or two is necessary. If the swelling leaves the throat it immediately falls into the testicles. —

Jany 27th —

Cynanche Pituitosa, Dr. Mitchell — Under this incommodious Epidemic Epidemic of Cynanche Pituitosa, or the mumps, I have seen several persons — the cases for the most part of a mild nature — the Epidemic commenced about the 1st of January, & prevailed for some time — sometimes the Testicles

[illegible]

[illegible] — [illegible] [illegible] [illegible]

We the Great Lunar means of effecting such
effects are one of the least meritorious
discoveries —

Crew M. Mind —

"Sir, I fear, if you are remembered, it has
the ~~[illegible]~~ — the Lance in the prem. Mind.
the Police the guide cause of the one or
the other — Also, inclines to an after-dinner
discussion: wine & the ~~[illegible]~~ mixed attention
not in the Recognition: public — and the
remedies & [illegible] active scene ~~[illegible]~~
up almost forbid — Mr. Mr introduction
over of Mr. Mr. Mr. the Grace & time
the particular case have or [illegible] —
& on [illegible] it will be found [illegible]
— Crew M. Unless you are
to be cautious and sparing [illegible] —
in Cordials for a [illegible] [illegible] [illegible]
[illegible] [illegible] the [illegible] —

Crew M. [illegible]
"on more [illegible] in the [illegible] — and

should be given two tea-spoonfuls —
This medicine generally carries off with a discharge
from the bowels when given without
the assistance of an emetic. From may be used
in conjunction with an emetic when the con-
tents of the stomach are found to be inflam-
mation — the symptoms are those of inflam-
matory fever — and the use of the medicine becomes very favorable.

Symptoms
of the disease —

Purging, griping, anxiety, pain and fullness
in the abdomen, a desire to evacuate the bowels
and very often after the passage of the stool — and immediately
after rejected, and accompanied with excoriation
of the anus when the stool is passed, induce a gastric
diet: and ignition from fever — the diet
must be done in small quantities, mild glysters and
bitters to the part — For particular directions
the dietetic will produce a gastroti-

But that the cold water shock cause this sudden
unequal effect the person must be warm
: the water will — and by the same cause.
Then its effects are suddenly mortal it acts
deliciles — but that is not the case it be-
comes a great stimulus extending its effects to
the nervous system &c. The Cure is commonly
easy — the harm it produces is sometimes
incurable and sometimes comes in the gal-
lest shot on lus the effects of cold water, the
least and most sudden relief is obtained from
warm bath. The person must be carefully
wiped dry as it natural — after this is done
warming &c. are necessary to recover any
effects from inflammation —
The effects of cold water may be prevented in
the following manner: the sheet may con-
tain it be wet with warm water. it must be

gently in with hands for a minute or so
let some part of the body receive the heat
itself, or immediately your face & hands
are, &, that if these are covered is not sufficient
to bathe the surface with cold
water — use, when in bathing accompanied
with the water —

Genus 6th Exercise for internal
inflammation — Inflammation: the
result never brings on any exertion — in
this the heat is not hard — but the cure is to
be effected by bleeding, blisters, somewhat
purgatives &c — the presence of this disease
is best known by examining the pulse
and by, when, exists the alimentary canal.
the stomach. —

Genus 7th Exercise
Gravid Tension and, pain is the result of pregnancy
condition, often, merely like a debility, may
not often be felt, pain extends to the back

and the summit, the right shoulder dis-
culty in laying on the left side difficulty
breathing. Dry cough. Vomiting and recur.
regurgitates corner on slow suffer from
tion — There are two species — like
Pneumonia long fever and notice.
Gastric fever very much tend to
inflammation more so than any other
part of the whole system. The more
extendence or relief is sought for
the Bile to direct. Bitters in the Dart
fected are very serviceable — in the hepatic
~~notice explain the~~ genius, mild cathartics are
useful — Calomel from experience has
been found excellent and especially in
hepatic notes — acts by derivation and
as a deobstruent — to be given in large
ones so as to purge briskly as a cathartic

In chronic inflammations of the liver, it sometimes is carried on, & in irritable habits, that unexpected symptoms are not often

Diuretics

Cremor tartar & Spirits

Diuretics, seem in the version of the kidneys, after extending the length of the ureters; frequent motions of water, sometimes thin, and colorless and sometimes very red. Vomiting, numbness of the legs and retraction, and pain at the testicle of the affected side

For particular and rational medendi consult bulbus. Blisters in this case are improper, but bleeding emollient, and warm Clysters with fomentations as near the part as possible can alleviate the pain. Sometimes with the other concomitant symptoms are very pathognomonic of the presence of the Disease

Gen: 20th Cystitis or inf: of the Bladder. Definition &c. Cullen prop: it is an inflam: sometimes arising from internal causes, but generally from external causes such as applications of blisters, acrid injections &c. All the general Ind: direct for always prevail, copious bleeding &c. must effect the cure —

Genus 21st Hysteritis or inf: of the Womb. This Disease chiefly occurs after Childbearing. The Puerperale fever is generally an attendant, and frequently of the nervous or putrid kind — tho' let it be of what genus it may, it requires the exact treatment of that special kind of fever.

Genus 22 Pneumatitis. For its particular Defin: see Cullen

the inflammation, a general attendant
on the complaint, from attacks the fin-
gers or toes, and in common with them
we attach children in that manner, you may, presume
to be threatic. The acute kind yields
copious bleedings &c. and all heat.
of causes are to be entirely abstracted.
The part affected should not be exposed
well blisters are invaluable adhesive
bill. often bleeding purging &c.
sweating, and blisters are never accepted
Perhaps when the inflammation parts be-
come very simple the application of
Melasses, or cabbage leaves have been
found to give great relief. Hence
an excellent palliative. In gou-
ric rheumatism, bleeding is seldom
necessary — The use of flannel worn
next the skin & the use of the fish

bath, electricity & bath. application of stimulating aromatic oils &c. internal use of the gentle Italy. Exercise constitute the greatest aid of the Cure — The Use of Guaiac: with nitre is beneficial, and tincture of the Gum: dissolved in Spt. of ammon: dose tea spoonfull three times a day is an excellent prescription.

Lumbago Rheumatis:

also Rheum: Dentalgia yield to the antiphlogistic treatment, just as Sciatica, Pleurodynia, Pleurodyne, Rheumatic the "Sciatica — The Dentalgia a species of Rheumatism is brought on by exposure, and sudden transition of Heat & cold. — The "Odontalgia: Gravid.

is produced from the plethoric state, that pregnant women are always liable to — yield to V. S. pur. moderately — and Blisters — the most frequent cause — Sciatica is the common exposure of the head to the more frequent transition cold, in climates, eating, drinking, and also from sleeping as the head is always exposed, whilst the body is kept warm. The best mode of cure as well as preventing its frequent attacks, is by sleeping in a woolen night cap! —

Genus 23d. ~~Xxxxxxxxxxxxxxxx~~ —

Fever disease with an evident external cause, but for the most part an unusual affection of the stomach preceding; Pyrexia, Pain at the joints

and for the most part of the great Toe, always af-
flicting the articulations of the feet, and hands
the ~~most~~ worst — returning at intervals, and
often changing with the affections of the stomach, and internal
parts — This disease has been accounted here-
ditary, but this nothing far than a pre-
disposition — always requiring some occasional
cause to bring it on — (The small pox measles &c. are accompanied Diseases) Flattacks
robust habits, large heads &c. The Male
much more frequent than the female —
it comes on about 40, or 50 yr, more or less
acute. For particulars consult Sydenham.
An affection of the stomach attended with
some of the other symptoms is a pathog-
nomonic sign of a gouty affection —
[illegible] the patient is more liable
to admit disease, which it be well
[illegible] the Cirt preserve health

the least wind blows over the surface of the
sea, and yet — and
yet it seems the lower extremities particu-
larly susceptible — If the patient is
at the age of 40 or 50 the disease
is inflammatory — If then the joints inflam:
the patient, having recourse to Phlebotomy
it, and the pain ceases, yet if it may
be with a van tage, also make strong
opium in one of the best particular, impro-
lements & gouty. Blisters have been —
just prejudicial, but if there, from Ef-
fusions have found them very favorable.
mild, relief, the Surgeon — Repose to
the applied to the part affected by the
extremities — The alone but almost
unexpected power disease — Melancholy
in the form of Scarvice, Angina,
Catarrh: Vertigo &c. In complaints of

Men especially, whose business or employment
leads to sedentary habits, in other manner
Drinkers of Cholera, and to the Worms
Women —

Diarrhœa & Gastro-enteritis

Diarrhœa, which is the harbinger of the cholera
must be treated with more prompt attention than
the last and advanced stage, the very neglect
of which is the fact, it ever must be accompanied
with much or producing a relapse.

The atmosphere seems to be sensibly bad
service to the system, effect which
recent on Gazebrook is unfavorable to the
not to be low continued for then the more
increasing the system. The stomach
chiefly affected the bowels and bowels — then
stomach is affected the bowels more prone of
mental a vomiting. Quicksilver in the case issue
all, the wine with aromatics if the quick brandy
the jaw wine glassful to be given at a dose.

unobserved from notes even tho' you have given a hint. Parts have found very favorable in relieving a Vomiting from an over distension — The Salt of Alkali has been strained by every those that have been willing in removing the putrefaction of the blood & the infection — accurate & the injurious are formed — Part of the blood are affected — This be recorded by the Opium both with vices the Wine — If the mortified part flood appear inflammation in any part of the blood it is to be treated in the antiphlogistic mode —

Indo 3d Examination

Cut down inflammation, blood: diminish long & dispose for cutting down.

Genus 4th Hydrocephalus

In Definition, and Treatment Conduct Fullen & Epsth. Vesicul? Pl. Cure it & be lazy

affected by bleeding, purging, all external
relaxations & accidents, that happen to the
patient, were he just escaped a piece of plan-
ner has laboured under —

It is equally proper, or rather necessary —
Treatment
before the eruption, and the secretions must
be washed with a v. mild —

Genus 25th Pertussis —

Definition &c. Fullen
It is ~~[illegible]~~ the manner that their disease is
an irritation beyond the reach of the breath
of the infected person — Fears have been
found to prevent in a general habit man-
ner some extreme of it —

Febrifuge pro

Genus 26th Variola. For Definition of
particulars consult Cullen Pyrexia —
Pain in the Pit of the Stomach is the most infallible
symptom, when accompanied with the other marks,

of the small pox — If the eruption begins before the third, or fourth day, it is a bad sign. In the natural way the sooner the disease is retained in the system before the breakingout, the more dangerous — but this is not the case in inoculation.

The reason for the disease prevailing more in the latter season, may be accounted for by the warm bedding a proper vehicle for the variolous matter. also the woolen cloathes worn then.

The small pox is divided into two species, the mild, and confluent. The former been attended with synocha, and the latter with synochus sometimes typhus. Both kinds receive now the same treatment as the respective types of fever — In the secondary fever, when deglutition, & the heart take place. Blisters to the back & the neck are essentially usefull — also the inunctions. also on the swelling & the face falling, swellings of the feet, and hands take place — which

beneficial and when this ~~[illegible]~~ not take place, bathing of
blisters to the parts expedite the eruption on the
walling. Calomel is very full to be given during
all the filling of the small pox, rousing every
night with an anodyne — When the fever is higher
emetics Bark and Wine are the best remedies.
Opium is useful in all kinds of the small pox.

Genus 4th Varicella, or Chicken pox.

For Definition V. Cullen.

Is frequently mistaken for the small pox but
may be distinguished from the fever being light. Erup-
tion not continuous long, matter thinner &c. It
commonly yields to fever regimen &c.

Rubeola or Measles —

For Particulars and Definition Consult Cullen.
Are to be treated as pneumonia, and catarrh.
Viz. Nitrates, demulcent drinks, also subacids,
such as Currants and water meat. Opium is par-
ticularly beneficial — The term, treated as inflam-
matory. as pneumonia & phthisis are frequent
the convalescent state — animal food &c.

to be avoided for two, or three weeks — Food the
best should be milk, and vegetables — during
the convalescent state is not a dangerous
diseases, but the patient is to be kept me-
derately warm, and free perspiration to
be supported — Wearing a flannel shirt is
desirable in the recovering state —
His opinion that the tears contain the conta-
gious matter but no perceptible advantages
have been observed to arise from inoculation —

Cases of the Author —

Cases 30. Mr. Scandalina —
Definition of Croup Cullen's Synopsis.
Differs from the Angina maligna in being
slight. sometimes appears without any affection
of the throat &c. at other times the complaint is in
great degree and the convalescence very pec-
uliar the paralysis or more difficult
very rare but more especially the young and
delicate — It appears in summer, at

well as gall and winter. In summer, it seems
an affection of the stomach. This is sometimes
but the symptom is accompanied with affections
the throat and rectum and has been mistaken
for venereal. Hence the poor sufferer is medicined
mercury instead of deserves — [illegible] stomach
and sometimes a combined [illegible] of the mucous
membranes of the fauces when accompanied
with the other symptoms. The bile neither
increases as well as in all conjunctivae,
much affected apparently in quantity as
in quantity — the latter being more in-
creased. Wellings bleeding the ear with a run-
ning frequently attend a [illegible] in
the cavity of the ear. Difficulty of breathing
in having frequent pleurisy. Dei-
rium if severe accompanies — The treatment
is common to the B. Oxi and continuing time
with. In reviving the gauges H. in the begin-
ning.

the complaint a black spot on the tonsils is observable, which afterwards changes whitish and occupies all the other parts. nor even extends to the tongue. It has been known to have been complicated with remittent and bilious fever — It often puts on various forms — the fever is generally typhus the symptoms upon its recurrence it lasts seldom. in general it not commences with a considerable irritation of pulse, and rigidity.

The best remedy is an emetic and a cathartic followed with 4 or 5 grains of calomel: to be repeated daily 3 or 4 times, but not to be carried to a salivation.

The calomel may also be joined with some Diaphoretic. It is also to be mixed with the powders — viz: Pulv: antimon: Ipecac: and Cayenne Pepper. But it should be used, only if the neck inclines to the fever

Synonyms & Terms — It may be asked from what part of the Treatment of this Disease is also in the Note of Dr Fleetwood mentioned, that it is concerned, the Practice of the Author Treatment Good and the other Practitioners seem uniformly to consider, and treat it as a Complaint of the Bowels, and not from the Lungs —

Hor. Medicina Medicaria Compendiosa and Septima Pulmonum.

Febrifuge Order of Hemorrhagia. Synesia cum hæmoptoe, sanguinis ejectione; sanguis mistus cum Phlegmate in particulares longe et lentos —

Hemorrhagia, are either active, or passive — of the commonly attended the former, particularly in the early stage of life under 35, when the arterial Plethora is active —

But in the decline of life, when the venous obstruction takes place, a fatal hemorrhage happens. This is occasioned by an increase in size, and congestion in the arteries. The, in size, from venous congestion. — Unequal distribution of the blood causes particular Hemorrhages to recent age — In children from a greater termination to the head. Hence more subject bleedings of the nose, numerous affections of the eyes, head &c. From Rule 35 Hemorrhages sometimes, but after the venous obstruction mentioned, takes place in the Venis Portis hence hemorrhoids — In the decline of life when the stream of blood from the head is difficult hemorrhages of the brain take place terminating in apoplexies —

In the case of Hemorrhages it must be a work of Art altogether, a great deal depends on the diet — Salt food that induces the least nourishment the least

Stimulants, is indescribable such as coarse Asses
Spirits &c. Opium Vitriol &c. Opium Vitriol &c.
is the more necessary, as to be avoided
If a case is necessary, the fine kind
is to be used, such as Cognac Brandy or
Jamaica &c. — Wine and Porter are
useful in moderate quantities, but the strong
Porters are always to be kept moder-
ately open and all critical times of every
kind to be ~~[illegible]~~ avoided —

Given the Hamburgh Medical Society all
that are to be avoided, Medicines are beneficial
in fact it is impossible Physicians are not at
their pharmaceutics — but the internal Ap-
plication of cold water is recommended-
mentioned — Rules of Epitaph is
For Definition &c. consult Dictionary -
Bottle should be applied to the Scalp
and back of the neck, also Bottle of Essence &c.
introduced up the nose —

Febr. 6th.

Cases 35. Hæmoptysis.

For the definitive History & Complete Cure

In the curing of this dangerous bleeding is one of the 1st remedies the quantity thereof taken must be small, lest it occasion the opposite effect, a larger, & the most convenient kind are to be matured & the lowest, & the most gentle often. Milk and vegetable diet, the cause to be of that kind that contracts the last movement and the constriction.

Mentations from any cause or labour is to be avoided. In the irritation indicated from inflammatory injury during the actual spitting of blood the horse recited antient are much more necessary and must be accompanied with anodyne, the Opia of Reason — But where any medicine yet discovered, common diet deserves the first place. Dose from one Teaspoonfull to a Tablespoonful every morning, gathering the taken as well during the intervals of spitting of blood, as at the very time. The part is not to be disturbed but to be treated in first Tense.

Surry the Effects, &c, & the same accident in accord
in all instances, that attention to experience, are
the objects —

Matthew Palmerston
Wills Hilton &c. Conjunct Cause —

This Disease is highly deserved into three
classes. The first admits of a Cure; sometimes the
second; the last seldom, and the third are left is not to
be reckoned as a part of the complaint but the begin-
ning of Death — Pregnancy exists in unmar-
ried women, and after delivery in all mean-
ness the children — Married state requisite
not to make of a consumptive habit, or increas
worse — But highly advantageous, and com
mendable to females —

Febry 17th Case. of Consumption
continued; and its Cure considered —

From whatever cause this disease may arise, the Physi-
ci diathesis must be obviated, which is first to be
attempted by bleeding, which may be repeated during
the continuance of the inflam. Secret, to the quantity

taken at a time must be small, not exceeding 3, or 4 ounces, the intervals between each bleeding may be 10, or 12 days — The inf: diathesis often attends the 2d stage of the complaint, which may commence towards the time when night sweats take place — The milk diet recommended in the Hemoptysis, is equally necessary here — and if milk should disagree, it maybe diluted with water, or even a small quantity of brandy may be added for a while to make it agreeable to the patients stomach. It is very expedient to keep the patients warm, (so not to be exposed to the cold), and especially his feet and breast — the wearing of flannel next the skin was well serves this purpose, as well as keeping a constant determination to the surface, and preventing catching cold. Blistering, at near the last expected or probable is very beneficial, also issues in the arms are very useful. Barbadoes are two of the least countries perhaps existing on earth, and yet it is from the Disease, [illegible]

neither too hot, or too cold, and likewise not least
subject to sudden, and frequent changes —
persons going to other countries for the advantage
of a better climate, at least ought to remain
3 months, or 2 years. This disease has been
known to be cured by navigation, and frequent
transitions to cold and moisture, as to the cold
bath has proved effectual, when the complaint resisted even
the least recommended medicines — Calomel
has been highly recommended, but it is only use-
full, when the symptoms of Consumption
are symptomatic, and occasioned by obstructions
in the liver, or some of the abdominal Viscera —
Bath is always injurious where any inclination to Diar-
rhoea prevails — Bitters have been found
serviceable, and a Decoction of the cherry tree
bark is highly beneficial to accompany the
above treatment laid down. Demulcents are often
usefull. Great benefit has been received from

the use of vegt. acids — narcotics, particularly at
least one a day. Dr Rush, from personal Ob-
servations made during his practice, with the
opinions of some modern european Physicians
are of opinion that the Scorbutic is contai-
gious, and per'ons ought to be careful in avoid-
ing the breath &c. of Consumptive persons —

Chap. 9th

Genus 3d Hæmorrhois —

Definition &c. Vide Nosologia — Synonima Greeks
& men some regard fruit, always be fixed to their ex-
ists, and the necessary enquiries are to be made —
Cure is to be effected by purges, the most gentle kind. Sulph.
answers best here, have been. If the bowels should be very costi
anodynes, and emollient applications are beneficial —
Also if the parts become relaxed and protruded then astri-
ngent & stimulating applications are requisite, and which
have been found to answer very well, are Tar, mixed
with an Ointment, or white lead with oil — The
Extract of the white walnut is useful to keep the

Cupping, & or 3 bills always will answer, and ought
never to be given w[ith] bandages made of the inspissated
juices.

Gen: 37 Menorrhagies or Floodings
commonly under the veils Hemorrhage — In this com-
mon Complaint Cullen, Pregnant women, and also
at after delivery are subject to it. Sometimes there
happens regular Discharges during pregnancy — but this
low or blood must come the Uterus Kept from the
Vessels. This kind of hemorrhage seldom requires much —
the feed, bleeding, and cathartics purging are sufficient.
But when the discharge is from the Uterus V.S. and
keeping the bowels open with rest commonly relieves —
the women during pregnancy are in danger of preser-
ving from floodings & bleeding were mostly in the
latter end of pregnancy are great sufferers. Flood
after delivery is very dangerous, and must be stopt im-
mediately least it with the fungus common Cattend-
ing may instantaneously bring on death — This
most sudden & and effective Cure some Cure apply ice
Cold — either Cure accepted Cold water or

large Clothes ~~with~~ wet with cold water, or Vinegar laid upon the parts — after this Opium is found an useful Astringent — and it has to the greatest degree is required. When flooding is owing to debility, then tonics are necessary, such as Bark, Steel, exercise, Cold bath —

Leucorrhœa, or Whites

For particulars &c. read Fuller. It is sometimes mistaken for gonorrhœa, but may generally be distinguished from it, in having no scalding. It must be treated with tonics, such as Bark, Cascarilla, Terebinth. Bath &c. sometimes the discharge becomes so acrid, that the parts are ulcerated &c. then Mercury is very useful, and when you have excited a salivation, and then some time to the Nervous system, immediately pour in the Bark &c. — If it is accompanied with visceral obstructions, then mercury is more essential —

Amenorrhœa

is definitely, a term reserved to Cullen. Women may have Headache, nervous to men, nausea

If the Menses should be stopt by cold, giving an ex-
ample: fever, regard must only be had to the fever, & to
be treated with N.S. purging &c. In chronic inflam-
ations Juices are the remedies, bleeding unnecessary if
habitate corbeness rides claim the first notice;
and if the antiphlogistic medicine among the last & best of
mana exposures that merits the attention.

(1) Dysmenorrhœa or deficient
catamenia — The patient is to be healthy
by exercise, and Venus (antibilious and, non-
nutro

Illustrated with Cases.

Illustrated with Cases.

Definition particular — conditions — Symptoms — Causes — Treatment — Prognosis — Remarks — Conclusion —

Definition &c. Pure Cases —

The frequency of the menses recognized seven days out of
the specific functions peculiar to Sex health

fluxions and occurs most frequently in summer — Hydrate
of the purgatives the most convenient kind such as Glauber's salts
taken near the least effected are very beneficial. Instead
given in such doses as to keep mildly it frequently repeated.
Opium is required in the evening to give a little rest —
Semicercle drinks, — as very proper Decoction is a frequent ad-
vantageous attendant under best received the aliments
nourishing — Semicercle receipt from common contagion
in a commonly is in gall and nitre putrid
nitre appearance — in most fevers generally with
and the same treatment as the type of the fever, the
nous system — the same that to be treated with mildness
and be — the fever is received — Injuries are very
required in recovering and then in a case intermission
the complaint and then time must be given the
a slight tolerable — then a Dysenteric
attack in a few days to the more treatment
and cause for the time ceased — your
prescription must be attended and directed by the
prevailing epidemic —

Chap. 13th Lect. 11. Vesicles —

Case of motion increased in preternatural disease.

Idiot. Lunatic —

Voluntary motion diminished with a loss of attention of the senses. Lon. 40 — Apoplexy &c —

This is long, wide, & serous. Both sequelæ the same

gatment, and inducing the same effects. These happen

in both either an extravasation or intravasation

of blood or serum in the brain. The 1st must happen

from a rupture of the brain, & the serum

is contained in a cellular membrane & blood

the replete. The intercepted nerve is hard.

in pressure on the brain & the blood. The cavity

is replete, an indurated tube &c. Pressure, & nerve

replete & diseased &c. not a sacrum tube.

Case &c. Patient recover the mind & feeling

not extinct, and in some treatment &c. in the se-

cond case. — The pathology of these in all cases

is the same in the first place &c. the spon-

taneous &c. the blood must be &c.

[illegible] bear the position well [illegible] venous [illegible]. Cupping may likewise be employed. [illegible] stimulating plaisters should be frequently repeated. [illegible] mustard made into a cataplasm ap- plied to the [illegible] [illegible] [illegible] motion [illegible] immediately [illegible] renewed the [illegible] [illegible] [illegible]. Here bleeding is seldom necessary [illegible] cold water [illegible] immediate relief [illegible] from [illegible] is likewise effectual both [illegible] to return. Drowning is likewise [illegible]. Heat is here essentially ne- cessary. Frictions, stimulating plaisters, inflating [illegible] &c. [illegible] follow the [illegible]. Effects of hanging require the same treat- ment [illegible] the air retained in the lungs is —

ishorted to become mephitic, and act sedative upon the nerves. Men frequently from the effects of intoxication and cold water is to be used as an Emetick, or from the violence of the mind imitated. These facts in water immediately are to be repeated. The remarkable cautions of the crown of the head if not taken, in respectfully in cold snow or cold water should be used. Fear should be avoided apparent by physician and exercise. The last incredulous should either of the medicine warm. Injury in or internal the cure is a speccere repetitions. Intersection is the only exception. In cases of Hypochondria, or what is vulgarly called vane the mind is only in a dreamy state separated from the body. These symptoms of epilepsy appear, the Diet should be low gentle laxatives free exercise warm clothing, and a blister over the neck are all necessary. Gentle bleedings are useful

the opinion of the medical is a case of incipient apoplexy. Persons who go about with stooping habits are generally found on their backs; hence the necessity of a perfective habit avoiding this position in sleeping. Intemperate exercise, indolence and anxiety accompany the dead sick are accompanying for further particulars on this subject consult Hunter's Treatise —

Respectfully yours
Thos. H. Parsons

Gout is an affection in an inferior degree, and would from many of the same causes, sometimes accompany it affected, when it is called name Lepra. and is derived from other complex terms or

Fever from constipation. Some Physicians to be removed by stimulants & purgative remedies — Some quote the Bitters to the neck & immediately take a dose of the quit. Some worms in the common wind when in the yet the secret a clean removal the cause — Ben. H. Parsons

Plethora in the brain, or from want of mobility in the nervous system. In the first, the symptoms are urgent as in the second uniform. To remove the first from an inflammatory disease, and should be repeated according to the relief it affords. In a semi-plethora blood should never be drawn from the side affected. Partial pains are most useful. They should be large, and frequently repeated. Blisters should be never applied. Setons, after blisters become tender too painful, are necessary, and should be continued till the disease is cured. The repeated vacuations must be restored, even the most minute. Hence the necessity of enquiring particularly into such circumstances. The symptoms may be obviated as in apoplexy. –

When from want of mobility, another process is required. This is always in parts remote from the brain. It is easily distinguished. When no symptoms of pressure in the brain is evidenced, then Electricity is useful. The shocks should be of

first unite, and gradually increased; as has, inches and destroy the mobility of the nervous system. They should be continued for an hour at a time. Friections both dry and moist are necessary: all the Ve-
ge adventitious matter removed from common
twitch to first coat. Pettle-ware, &c. Dangerous
that in very warm water, as to inflame the
skin. Cold water is prejudicial, tending
weight, reducing unnecessary heat. The Palsys
are symptomatic, from the Cerebral ac-
tion or contagion —

Cl: II Adynamiae.

Gen: 42. Syncope.

Causes Incoherent Effect, which act indirectly
on the Brain are only without the reach of our
art. Fatigue tends to produce syncope by
taking off excitement from the brain.
Passions of the mind pr extreme depression
always follow extreme excitement, so great some-
times as to produce suicide. Particular
odors sometimes bring on syncope from
Idiosyncracy &c.

The Cure when it proceeds from predisposition, may be effected by change of air, exercise, cold bath and tonic medicines. Relaxation often removes peculiar prejudices. If the gets a horizontal posture and stimulants recover the patient. Cold water will generally suffice.

Lecture 16th

Gen. Hs of Dyspepsia

The stomach permits digestion insensibly, particles substances particularly if liable to manage diseases marked, especially be called the inter o the so. . . of dyspepsia may be called the utility that not an indirect harmonious function which has the sensation the stomach. Tracce and Spasm and to induce experience other impacts. . . not from the tone of the stomach. Bitters often only . . . habitual or irritation effect effects . . . imposing . . . contemporaneous . . . not, indulgence of . . . with intermittent patient of the mental intense . . . digestive or fruitiness or . . . spin nervous Dyspepsia

[illegible] power to cold [illegible] without exercise.

The cure is to be performed by removing these [illegible] causes. Living ardent spirits too freely is a very general cause. When this is the case the symptoms are very pernicious & swelling [illegible] for the [illegible] [illegible] [illegible] in the morning be. Spirits [illegible] beneficial in cold weather but useful in [illegible] weather & continued to keep up the stimulus [illegible] weather in [illegible]. [illegible] with water [illegible] be better. The [illegible] is best relieved [illegible] vomiting [illegible] perspiration [illegible] it may be [illegible] by warm bathing or drinking warm Tea. The latter from its [illegible] [illegible] is [illegible] [illegible] treating the effects of [illegible] [illegible] [illegible] in [illegible] [illegible] from all the other causes [illegible] [illegible] when [illegible] where the stomach is [illegible] with a foul [illegible] a [illegible] emetic Ipecac may be given [illegible] [illegible] by [illegible] [illegible]

Tranquillising precepts & advice, & also a
the stomach, by giving it the power of repelling
disease & resisting exposure to morbid emanations
from the air, & recuperating energy & vigour
necessary ~~and~~ to perform its functions. Let it be
pill or water, & let it be taken and or mentioned
may be taken at once or twice or gargling
or bandaging. Omission the only practical
one. Let it be used at bedtime may be used
given pills or liquids. Otherwise aromatics,
bowels are not active in a manner be-
cause of costiveness lowness of the system
the stomach & bowels are not injured
cal use be selected given. Let it
given may be given 31 pr day. Quite the
most efficacious remedy. Stimulant
Effect of Injections

gastric has been found beneficial in this complaint
above to be taken every morning — or it may be made
into pills with soap & flour. The Diet ought to be
eat as dry as possible. Beef, mutton, veal, yolk
Eggs being easy of digestion, and affording a

food and of nourishment is the most eligible food and it is somewhat necessary if possible to give some fresh air. Retaining with hard and leaden head are most intolerable. Drinking Coffee is to be recommended with old generous Madeira. Both hot and intoxicating are very serviceable. The latter may either be taken in a glass according to circumstances. Climbing up a hill is particularly serviceable, as in exercising their corporeal powers is obliged to lend a hand.

Causa Cardiaca.

Nitrous acid or the gentle emetics of Ipecac. also Opium.

Causa Marina is to be avoided by formulating purgo, and in extreme pain, must have recourse to the use of Opium.

Cap: 44. Hypochondriasis.

Dyspepsia, cum Languore, Torpore, metu, et Mœstitia.
For Particulars Consult Cullen

This disease is entirely different from Dyspepsia, or Thyase.
The ~~than~~ often complicated. In Dyspepsia the Proximate cause is Debility. But in Hypochondriasis, Torpor or want of irritation is the Proximate cause

pitting, either an antacid, or an astringent, which either Bowels or Kidneys — seldom any remedy attended — which is not the case in dyspepsia

Fermentation water will lay on the stomach a fermenting laboratory under the stomach: which vegetates in dyspepsia — It most frequently attacks the

stomach which is the receptacle of the dyspepsia — for having nutritious offensive to those symptoms with the remote causes are especially fear, sadness, we must be excited to sensibility between them. Dr Cullen has in his definitions in Practice

found a new ~~[illegible]~~ Disease ~~[illegible]~~ which he not be to leave to name Cardialgia.

The Method of Cure must vary with respect to the remote and occasional causes. — Tonics

are not indicated such as steel are improper. But bitters combined with acids are useful warm baths also warm climate, and with exercise must accompany a Cure. Opiates

and is one of the least Medicines, as seems an uneven air climate. It may be given more to the acute activate.

[illegible] 4th —

Ord. III Spasmi —

[illegible]

[illegible]. Gen. 4th. Tetanus. Gen. [illegible]

[illegible] the [illegible] Definit in Ed. [illegible] both

[illegible] — [illegible] [illegible]

[illegible] distinct, [illegible] the same Disease,

but in different [illegible] — This Disease is

most frequent in warm Countries and warm Seasons.

Its Proximate cause is a preternatural Contraction of the muscular System occasioned by

heat — From a just knowledge of the proximate

cause, the ~~[illegible]~~ cure indications must depend on Tonics and

these of the most powerful kind: viz. Bark,

wine, Cold bath &c. Hence the use of warm

bathing & Opium is improper — the latter may

be used as a palliative, as in other complaints.

The internal & external use of Mercury may be se-

rviceable, given in such a manner as to affect

the mouth and glands, hence producing inflammation,

according to the Phlog: Diathesis —

Gen. Sir, I beg to be excused — for not sooner
giving an immediate inflammation being
induced on the part in the application of
poultices. Hence I beg leave to refer you
to Dr. Percivall's letter on the part.

Yours respectfully

Thos. Marsden Jun.

Miscarriage preceded by shivering and warm
fountains — the last on the 2 or 3 days
before the Miscarriage. Hence the necessity of
vitally purging children a few days after
birth — When the stamen is symptomatic
the cause by removing the primary fever

Jos. H. Conway, M.D.

To Colin: Hickey V. Cullen. Having from
a too acute mobility measured the sensibility
irritability & sensibility — either a precise
natural quantity or a fitness of the sensiferous sys-
tem will produce this mobility of the N. system
consequently gravid: with the P. P. & enter into phrem:
febrilis convulsio — the convulsion in the beginning, and
cont hill in the 1st instance — it is a very fatal malady
in the latter stage, commonly never mortal.

Gen: 47. Apparance, or Cramp.
In definition complete sullen. It is not so by
particular relations of the Muscles. Hemmor-
rhage attacks the lower extremities, and in the
night — It is best cured by suddenly jumping
out of bed, friction in the part &c. hence exter-
nal and giving to tone to the muscle
cles — Gen: 49 the [illegible]
in the history &c. of this case a complete [illegible]
The proximate cause of the disease is a morbid state of the
nervous system. Cure is to be always directed by the
remote cause. If cold or dry worms, cast some dry food
from a complaint of the bowels attended with [illegible] the
a dry low diet, and clover. If from irritation by the worms
treatment such as Mem: Fumi: Cuch: ammon: Fine [illegible]
Quicksilver. Flea, and change of air has been known to be, low
useful in relieving this disease. Gen: 51 Palpitation
Dyspnoea For the History &c. of both of these diseases
see Wide Cullen. Gen: 52 Asthma.
Referred to Cullen for the History &c. of this
complaint — Blisters are useful, when it does yield

to the common remedies recommended by Dr. Cullen. Moderate exercise, and change of air, which must be a most one, are good hygienic —

Gen. 53. Pertussis or Hooping Cough. For particulars, referred to Cullen. This Disease is most confined to Children, but Adults are liable to it. The Cure to be effected by V.S. gentle Vomits, purging, after the antiphlogistic Diet. of Stoll: is useful in answering the purpose of an Antispasm: Change of air is remarkably serviceable, but should always be to a lighter.

Gen: 54. Cynanche. for which V. Cullen.

Gen: 55. Colica. For History &c. &c

The Cure is to be begun, if the pulse indicates it, with V.S. most lenient purges, and Glysters. Glysters also of Tobacco Smoke. Blisters to the Thighs — best Prophylactic is gentle Cathartics just to keep the bowels open, with easy digestable aliment —

Gen: 56 Cholera.

Anodynes with Demulcents are the base for a Cure. Cullen first times —

Gen: 57th Diarrhoea

The best are Dog grass. Rhei is one of the best for that purpose. Ipecac: prove not a very accompanying th. When astringents are required White oak bark is a very good one. Acc. Demulcents are necessary in the Cure. Diet must be regarded. If the stools are black, or very offensive it proves that if green Veg. animal Aliment is improper. Exercise expedites the Cure. — Gen: 58. Diabetes V. Cullen.

Gen: 59. Hysteria. This Disease is proper to Women, suffering from the Hyp: in hearing worst in summer accompanied with Globus hysterica — Hell. no favorable Cause, mobility of the N: System — Cure to be obtained by nearly the same treatment with Epilepsy — by Cuprum: Zinc. &c. The Hysteria is very apt to be complicated with hyp: Epil: and other Diseases — Then regard must be had to the Predominant Disease.

flies often from its flatulent action changes the Hypochondria into Hypochondria

Gen: 61. Hydrophobia

Vide Bulletin —

Class 2d. Ord: 4. Vesaniae —

Injured functions, The mind with hypochondriasis.

Gen: 61. Amentia

An imbecillity of the mental functions —

The mental faculties of the brain, or mind may be injured from disease as well as the body. The memory has been in some instances lost thro' the want of exercise —

Gen: 62. Melancholia.

A partial madness. There are two species of melancholia viz the amatoria & religiosa. The 1st may be treated with evacuants if attended with Plethora. Such hypochondriac disease alone to be regarded. The religiosa, requires V.S. Bleeding & nursing Exercise.

Dr. Fish cured a shoemaker who had
some odd religious notions with mercury &
riding on horse back —

Gen: 63. Mania

Universal Madness —

All Diseases it hereditary from a fracture
in conformation of the brain. Upon
dissection the brain is found perfectly natural
allerdy. N.B. Bleeding, purging warm
bathing &c. are all useful, to take off
tension. The alimentary canal must be
kept laxative. Violent exercises are use-
ful. Dr. Gregory of Edinburgh was ad-
mirable hatents in the Lough.

Gen. 64. Dreams.

A disturbed Imagination
in sleep. This always proceeds from some
irritating cause. When no dreams there is
the fault is extremely at rest. Vice versa.
To prevent dreams, a wakeing in sleep be
precisely respected before going to bed.

cacy, & perhaps all irritating concretions be avoided.—

Gen: 98. Paraphonia

An entire loss of voice

When a sound voice is reattained by Disease, or accident, friction on the throat will relieve it.

Gen: 116. Gonorrhoea.

An involuntary discharge of humor from the Urethra.

The following injection Dr Rush has found certain in its efficacy to be accompanied with an antiphlog: heat.

merit.

℞ Mag: mac: fine Pul: ℥ss
Vitel: ov. unices
Tol: ℥: arab: fort: ℥ss
Aq: font: ℥ij m: f: inj:

The vomiting, and injury of children which generally hasten about the 10th month or dentition is for the most part fatal

at such a period of life. It proceeds from the same cause with the Cholera Morbus in adults, viz from the influence of the climate. Hence the bowels are laxous. Rhubarb is a bad medicine, & if used in this case, it should be joined with magnesia, or essential oil. The Ol: Ricini is the best eccoprotic. Wm: Treacle may be a pleasant to the stomach in Diarrhœa. Laud: lig: may occasionally be used with caution. When this disease happens in cities a change of air may be attended with happy consequence.

Febr.y 23.d Worms

Worms are not classed in the Nosology. They come out to be spoken of

[illegible] proceed in the

Alimentary Canal. The neck of the
vessel is the second, & therefore, exhaust
the air in order, for the, tissues, pulled gra-
ptures in the stomach & intestines
which is merely prove injurious to the
system. As this fluid recommends
a certain supposed to proved the
atmosphere in a great measure from
putrid miasma. Worms are with
no society concluded to protect the
body from the bad effects of putrid
sulphurics. When the fluid becomes
altered the worms become too nu-
merous for health. From their effects
on the nerves [illegible] unpleas-
ant. In all morbid diseases worms
affect the, [illegible] tex-
the symptom [illegible] their [illegible]

Confidence in the same commonly de-
nied effect of the Poison
Virus communicated to other irritated tissues of
the internal Economy.

Medicines act on the animal body
directly, or indirectly. The latter are
emetics, purgs, diuretics, diaphoretics, alteratives, &c. &c.
Some of these are found to act very
immediately, in an accident manner.
The direct, are either chemical, or mechanical.
Of the 1st are acids, alkalies, there will be rendered
chemically neutral, or combined in the form of the
neutral salts are all weighed. Common, Epsom
& the least soluble, are used
in the figure 1st are, given, & the
by the low, hemlock, or morphine, food
be low, & lemonade. The neutral salts are
weak, metallic or mere acrid, poison-
ous, in fact, nitre, antimony, or [illegible]

[illegible] [illegible] [illegible] the [illegible] powdered, ~~[illegible]~~

its [illegible]

~~[illegible] [illegible] [illegible]~~ [illegible]

pink-root in powder but the [illegible]

of [illegible]. [illegible] of this may

be infused with a pint of boiling water

a table spoonful [illegible] taken

[illegible] morning. The dose is [illegible]

[illegible]. [illegible] ~~the~~ [illegible]

[illegible] [illegible] making [illegible]

[illegible] [illegible] [illegible]. [illegible]

[illegible] ~~the~~ juice [illegible] [illegible]

[illegible] [illegible] [illegible]

are useful but cannot be used in sufficient

quantity to cause effect. [illegible] ~~the~~ [illegible]

~~[illegible]~~ ~~the~~ [illegible] [illegible] [illegible] [illegible]

[illegible] mechanical [illegible] [illegible] ~~the~~ [illegible]

Since we learn ~~that~~ [illegible] [illegible]

[illegible] salts, [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] never [illegible] [illegible] [illegible]

[illegible] ~~them~~

[illegible] advantage in taking
[illegible] the [illegible] Distillation
[illegible] considered [illegible] the generally
[illegible] capable of [illegible]
[illegible] with the [illegible]
[illegible] blood under
[illegible] to stand [illegible] the [illegible]
[illegible] of [illegible] the [illegible]
[illegible] the [illegible] form
[illegible] [illegible] circulation
[illegible] the [illegible] [illegible]
[illegible] in the [illegible]. The [illegible]
[illegible] gland, [illegible] left [illegible] [illegible]
[illegible] [illegible]. [illegible] [illegible]
[illegible] but can [illegible] take place in the [illegible]
[illegible] will [illegible] blood [illegible] [illegible] [illegible]
[illegible] [illegible] will [illegible] [illegible] [illegible]
[illegible] [illegible]. The [illegible] will [illegible]
an [illegible], by [illegible] [illegible]
[illegible] will be [illegible]. [illegible] [illegible]
[illegible] [illegible] blood out [illegible] [illegible].

The redness of the gums is said to be occasioned by an absorption from the vessels, which in this case the blood fluid is in good order, which in the system. The blood is more or less from the degree of motion. Hence the medical cause the venous. Blood in its natural state is red but is darkish in the tube. Veins abound more in the weak, than the strong. Blood is not necessary for in very small animals it is subtile. It is the primum vivens, ultimum moriens.

3rd Lecture on the Arteries.

The smaller arteries, issued from the same trunk at more acute angles, will join, & form one trunk. This is called anastomosis. Volume of the natural elastic contraction of arteries. There is a motion communicated by their nerves called pulse. Arteries are larger, more & more arteries inosculate in veins. Secretory organs & excreting vessels.

Feb 26th Lecture 2d.

Veins.

It has been stated that the arteries terminate in veins, vessels equal &c. and as the veins originate at the terminations of the arteries, would one from measure induce us to begin their description, and trace them from their beginning but find it more expedient, and best to do so anatomically as being most at the present — There are three principal veins, viz vena cava, pulmonary vein & vena portarum: they are somewhat elastic, and supplied with valves in every part of the system except the brain, thoracical & abdominal cavities. These valves are useful in preventing a reflux of the blood, as the force perceptible in the arteries given by the impulse of the heart is further exerted before it reaches the veins. The use of the veins is to return the blood to the heart, after it is carried to every part of the body by the arteries. A vein accompanies every artery but an artery not accompanies every vein.

for there are many veins placed just under the skin, and are apparent to the sight, which are not accompanied by arteries — the latter is widely spread upon the bones and under the muscles that they might not be apt and liable to injury. The motion of the blood in the veins adjacent to the arteries is kept up and quickened by their pulsation ~~of the~~ and ~~from~~ the blood in those veins that are situated ~~above~~ on the muscles and just under the skin give its motion accelerated by the action of the muscles. Every part of the body are furnished with lymphatics vessels which has no connection with the arteries as to their origination and are the same in their action as the lacteals, ~~they~~ which are and lower extremities are conveyed to the absorbent ~~carried~~ into the thoracic duct and receptaculum chyli and the superior to the subclavian veins — all cavities are amply furnished with lymphatics — From what has been said, it can easily be accounted for, why by the just reasoning of revulsion are occasioned, and will enable us to judge when it may be proper to make use of it.

Lecture 4th Oct 97th

Glands are a collection of cells which are the instruments of secreting certain fluids from the blood which they are destined for different uses or to be carried out from the system — they are either conglobate, or conglomerate. The former are supplied from the arteries, secretion is accounted for by the capacity of the cells, which are adapted to receive certain parts of the blood and to reject others — glands are supplied with arteries veins nerves and secretory ducts and some with sacks or reservoirs, as the liver is with the gall bladder, the testes with the vesicles seminales — the names of ~~the~~ gland was at first confined to the ~~salivary glands~~ kernels which were found near to the surface of the body, but afterwards applied to the liver brain &c. &c. — in those glands that have sacs or reservoirs, and the secreted juices remain there for some time we take them up by absorption. The fluids that are secreted by the different glands are divided in general classes. 1st. 1. Acid thin and limpid juices 2d all alkaline, and heterogeneous matter and some unassimilable 3d. all viscid sluggish and oily juices. 4th all inflammable juices, which are at first thin, but by standing become thick and oftentimes bitter

Muscles are bundles of soft fibres of a reddish colour, which are the instruments of motion. A muscle is divided into the belly, origin & insertion. The muscles have aponeurotic expansions, which serve to keep them in their proper place. Muscles are divided into three kinds, voluntary, involuntary, & the mixed. The first are those of the extremities and those of the heart & stomach. The third are abdominal, which being the lower part of the trunk, partake of the other.

Lower are most particularly distributed to those muscles which have the greatest motion, save the heart, and are supplied with a larger quantity of blood than is immediately necessary, which in a natural and promotes muscular motion.

The tendon to which the muscle is pointed is distinct substance, and in each of these two, ~~[illegible]~~ great force is required and their size depends also thereon.

Novr 25th 5th Lecture

The Nerves are composed of a great many threads lying parallel to each other, & united at their ends, from the Medulla and these threads are composed of a great number of smaller ones — as we have shewn, such as has been now described, has some what elasticity, not near so much as other parts of the body, for when each fibre contraction not observable, while blood vessels contract very much. These nerves & chords derive their origin from the brain, and partake of its covering viz the Cerebra and pia mater, and the tunica arachnoides, the two former giving them firmness, and strength, and the latter giving a cellular coat to connect the threads of the nerves, to let them expand and moist, and to support the vessels which go with them. Nerves are supplied amply with nerves, & fewest of all to the lungs. The nerves alone are sensible sensibility, and are affected to Motion. They frequently are extinguished the blood vessels, and ganglia are chiefly ~~found~~ found among the intercostal muscles — Ganglions have thicker coats than the nerves, and larger blood-vessels, their use not yet fairly known. The nerves of the larynx are free from these — nerves decussating one another form Plexuses. They also terminate in fatty substances.

Cellular membrane, ~~is contained~~ is divided into the adipose & cellular membranes, the former being a congeries of vessels containing ~~large~~ quantities of fat, for the purpose of reabsorption, filling up in the sinuses, and beautifying the body, and the latter a connecting substance thro the entire system, save the humours of the eye, having full communication subsisting between them, thro the whole body.

Nov. 29th 6th Lecture

Describing the external appearance of bones, dividing them into three kinds — the long, broad and flat, and irregular, ~~mentioning~~ the different forms of prominences & cavities be — proceeded to the ~~joints~~ joining or connections of them together, and ranked them under two classes of articulations — the diarthrosis, or those capable of motion, and the synarthrosis, or those having none.

The diarthrosis is divided into three kinds 1st the enarthrosis, when a large head is received into a deep acetabulum cavity, 2nd arthrodia, when a round head is received into a superficial, or glenoid cavity, and 3d ginglimus, where the roots of bones receive and are received

The Synarthrosis he also divides into three kinds, 1st Sutura, where bones are mutually indented into one another — 2nd Harmonia, where they are joined by plain surfaces, and 3d Gomphosis the fixing of one bone into another, as a nail into a board.

He subdivided the two Classes, diarthrosis, and synarthrosis into the three following species 1st the Synchondrosis, when a cartilage is the connecting substance 2d Syneurosis when ligaments are the connecting bodies, and 3d Sarcosis, when muscles are stretched from one to another. --

Periosteum.

This is a fine, thin, resisting vascular membrane covering, and surrounding all parts of the bones of the body. The part covering the epiphysis obtains that name of pericchondrium — This membrane is intended for the easier motion of the muscles, and the better supplying the bones with vessels — Some alledged there was an internal periosteum, but that I believe is not the case — There is a very fine membrane surround

Descr. of Ligaments.

are white flexible bodies, softer than cartilages, possessing little elasticity, & intended to keep the bones firmly together — those of the vertebræ, being the most extensive. They are supplied with arteries, veins &c. Where Epiphyses are not, capsular ligaments are formed. These come out from the bony, and superficial articulated bones in such a manner as to include the articulation in a purse, or bag: in those with epiphyses, the ligaments take their origin from the epiphyses. In these cases, their strength is uniform but in bones articulated by ginglymus they are strongest on those sides, which are immovable. Cartilages, are solid smooth elastic white & flexible substances, intended for defending the ends of bones, as well as their firmer connection & preventing any pain in the motion of the body. They are supplied with moisture from the synovial glands & are by their motion kept from ossifying. They are not subject to diseases, but liable to be affected by Gout, ichorous matter laying on them. Synovial ulcers never concrete. It has not yet been discovered that cartilages are capsular. Ossification is not produced from gelatinous, or cartilaginous matter, the substance of bones is peculiar to itself, shooting out from the center, and moving off all the gelatinous

cartilaginous substance which is afterwards taken into the circulation —

Dr. Gerrard

Position —

From the anatomical accentation of the term, it meant to signify a an erection of all the lower, or animal in their natural situation, either lower, or in preserving their elements to the elements mental effects of viscera are taken away — when connected but wise is called artificial, and when the elements &c. natural.

Bones in their natural position incline forward. The they are not perpendicular, not the direction of them is compared, that a perpendicular line falls from their common centre of gravity on the middle of their common base. By this we have greater quickness and strength in motion, as the force equal of the Muscles is much greater to counteract the gravity of the heart. The human structure is divided into the head, trunk, superior & inferior extremities. The head includes all the bones above the Atlas, the trunk all down to the juncture of the Femoris to the innominata.

ing, upper extremities similar, larger; travelling
down to the ends of the ribs, the inferior similar
at those below the ribs immediately.

Cranium consists of eight bones, five which are
called proper, and the other three, are referred
common to it, and the face. The proper are
the os frontis, two ossa parietalia, two ossa tempo-
rum, the os occipitis. The common are os
ethmoides, os sphenoides. For particular accou-
-nt see Monro's Osteology. The proper bones
are joined by five sutures viz the coronal, lamb-
-oid, sagittal & two squamous. Vide Monro.

The bones of the skull are joined to those of
the face by zygomatic sutures. Hydrocé-
-ris is in the fontanelle of the nose.

Sutures common to the head & face are
five. The moidal, sphenoidal, transverse,
and two zygomatic, but however of
these bones are at the junction of only
the bones of the skull.

Dec. 3d. In the lecture of this evening, the os frontis, ossa parietalia, & occipitalis, & two ossa temporum with the os sphenoides were treated of, as the development of these differs in no particular manner from previous examples, it is unnecessary to take down the particulars here.

[illegible]

[illegible] the [illegible] of the [illegible]

[illegible] [illegible]

Fourier guided the bones of the [illegible] with some observations on all the bones composing the proceeding the fourth beginning with the long slender bones extending from the [illegible] of the [illegible] to the end of the [illegible] resembling two unequal pyramids joined in a common base — The spine is composed of twenty three and [illegible] vertebra, the former constituting the long upper pyramid, which has to base below, while the latter make the shorter lower pyramid, whose base is above.

The true vertebra are the twenty four upper bones of the spine, which is divided into three classes, the cervical, dorsal, & lumbar. The first seven are the cervical, the twelve next are the dorsal, and the other five the lumbar — For their particular description, their figures, lines &c. See p. 117.

Dec. 6th

This evening was taken up in the description of the internal parts of female generations. nothing new was offered — We further visited & treated these parts —

Dec. 8th

We dissected with the lower governors the Pelvis were treated of, for particular Mr Monro. —

Dec. 9th

Dissected the Thorax or Chest.

The only part of the trunk not dissected. It reaches from below the neck to the belly, and terminates at a conoidal figure — for an accurate, and particular account Mr Monro.

Finishing the description of the trunk, made some observations on the spine, and concluded with a detail of some complaints peculiar to it — The necessities, or reasons incidental to children with a relation on Nobilities of the spleen, and a want of a particular sig-

matter — and that the several curvatures depend in the spine, are owing chiefly to the position, which the children accustom themselves to most, and also to curvature beginning to form, from incline in that way for ease, until they are affraid falling down ~~[illegible]~~, and incline the thin contrary way, vice versa —

11. Spina Bifida a complaint peculiar to the Vertebrae, and consists a want of one of the Vertebral spines, by which deficiency a soft tumour is formed; the fluid the pushing aside, finding no resistance, gave the spine which after great distension became bleeding and prominent; the swelling you would encline it to contain a quantity of matter, but commonly it is a dairy substance — tis is a complaint that is always mortal, altho many flattering symptoms appear —

Sept 18th Superior extremities.

Divided into the shoulder, arm, forearm and hand.

The shoulder consists of the clavicle and scapula — for their particular description, see H. memo.

The humerus, or arm bone, forms the elbow, connection &c. see H. Memo.

Oct 18th Thanksgiving day.

Dec 19th Did nothing in lecture, Dr. Rogers being indisposed.

Dec 20th

Hand to be studied in connection with the muscles of the metacarpus. Forearm later.

The carpus is composed of eight small short bones, four of which, viz the os scaphoides, os lunare, os cuneiforme, os pisiforme, are connected immediately to the radius, and ulna, the other four, trapezium, trapezoides magnum, unciforme, are connected to the metacarpus and to first bone of the thumb.

Metacarpus consists of four bones articulating with the wrist — Phalanges are compared by the number and figures — the metacarpal bones each have a tube, Mem. of Osteology —

Dec. 15th Inferior Extremities

Second form the Pelvis &c. The Os innominatum: commonly divided into three parts, viz. the ischium, ilium and pubes —

The ischium and ilium are described in their particular descriptions. i. Mem. —

Dec. 16th Finished Osteology by describing the Foot — for particulars thereof — have reference to Monro.

Dec. 17th No Lecture —

Dec. 18th This evening was taken up by a general recapitulation of the bones of the Skeleton, their different lives &c. &c. —

Decr. 19th No Lecture

Decr. 20th Epiphyseal was taken up in the description of the teeth and were divided into four classes, viz. The incisores, Cuspidata, Bicuspidata and molares. Incisores in the four teeth in each jaw placed in front cuspidata are one on each side of the incisores, bicuspidata are two on each side of the cuspidata and the three molares joining the bicuspidata, on the particular, articulation &c &c. Were reduction of the teeth into four classes was made by the ingenious Mr. John Hunter of Jermyn-

Decr. 21st Lect. 3.

Having finished the bones, Epiphyseal was employed in describing those muscles which are mentioned as follows, viz. Obliquus externus abdominis, erector internus major, Rectus lateralis major, Sacra lumbar internus, Hemo-inastoideus, Longus hyoideus

Hemispheroides Prolate Hemispheroides Spheroides Cuneoides Hemicylindroides — In these different formations in Solids, the Axis is —

Decr 23d

The contents. The Abomen were discovering upon in the Abdomen. The Peritoneum was first lectured on then the Abdominal Prescection, and so on, the other contents in rotation — We in we gave a view of division ~~between~~ gov the Peritoneum & Cecum, pointing no distinct difference — The latter is in cited into the Cecum from hence the Colon takes its origin & ends in the rectum —

Decr 24th

In Horse Power (and upon its contents were discovered in Hippomatomy, and we shall have as lectures upon it) manu secunda explanations —

Decr 25th No class —

Oct. 26th

Began a particular description of the contents of the thorax. In examining the trachea, he observed that the disease called the croup, so frequently mortal, is owing to an inspissated mucus, formed in the superior part of the trachea. This disease if early taken in hand will always give way to emetics & rouse there with other medicines not be effectual, tracheotomy is the dernier resource. A case was related of a boy in this city, vomiting up a piece of inspissated mucus 6 or 7 inches long which not only saved him apparently from death, but enabled him to play marbles with his fellows immediately afterwards. As this subject led to obstructions in the lungs & trachea of new born infants, he observed that those who cannot breathe upon their first entrance into the world alive may be saved by

forcibly inflating their lungs. He related the case of a child being said by him, who was perfectly breathless for some time after birth. upon applying his mouth to that of the infant's & blowing strongly, the child gave a squeak, to use the Dr's own expression. He is now a stout boy in perfect health —

Dec. 27th

Lectured on the mamma, & the muscles of the Humerus &c. & scapula viz: Deltoides, Supra spinatus, infra spinatus, Teres minor, Teres major, Subscapularis, Coracobrachialis, Biceps Flexor cubiti, Brachialis externus & internus, Biceps, flexor cubiti, & the insertions of the Pectoralis major & latissimus Dorsi into the humerus. —

Dec. 29th No lecture —

30th This morning was taken up in the description of the heart, showing the divisions of ventricles, their uses &c. & to illustrate the circulation of the blood —

Dec. 31st

The Dr this evening lectured on an impregnated uterus, or containing the secundines or what is commonly termed the after birth — being somewhat more edge, the gelatinous shell with-out and their fœtal parts, the umbilical cord — the chorion, amnios, placenta &c being shewn, then due be illustrated, and many worthy and important observations made on the organs of female generation.

January 1st 1824 —

Lecture on gutta serena, medical, imaginary, vacuity & surgical, obturator internus vel magnus &c. semi-ni Quadratus femoris, membranous for their particular Insertions, infections, Uses &c. Vide Gouldas

2nd

Lecture on the following muscles &c. viz. Gracilis, sartorius, Poplitæus, tibia, fasciæ, extensor, fasciæ internus, cruræus, intendinosus

Gemini internus, Biceps femoris Tibia Poplitæus Triceps et Quadriceps extensor femoris and obturator externus. ——

3d

This evening was taken up in lecturing on the Tarsus, the muscles of the foot, the Muscles common to the four inner toes, the muscles of the great toe, the Muscles of the little, the Muscles common to the great & little toes — For the Muscles of the above mentioned Muscles see Lecture.

5th

This Evening no lecture ——

6th

Lecture on the common integuments of the Abdomen which were divided into cutis & tela cellulosa, and epidermis, tela corpus papillare, Membrana cellulosa and Membrana adipose — The three latter, not reckoned common integuments.

For a particular account of the Jewish
manners & the Sacred Tabernacle
the Temples, & Institution of —

Burnet

& Lecture Thos Burnet —

8th

Lecture on the Jewish Sacrifices
priests and priestly Places
prophets Sacred cattle Festivals
Sacrifices Incense, & Melchizedec
Jewish, and Eastern Palace Tin
Scriptures learning & their
Opinions. Christian analogies.
-tice &c. &c. "Pious worthy"
Spiritual Elevations were
made on each particularly
respecting their lives &c. —

Lecture -

12th Lec.

12th Monday -

Illustrated on the Brain with the eternal Muscles of the Cranium. For particulars on this consequently See Mr Monro &c -

13th Lecture on the Deglutitogenitalis, Constrictor Isthmi Faucium vel nasalis Orbicularis Palpebrarum the muscles of the lips, both, proper, and common. the Buccinator, and Quadratus Genæ vel Platysma myoides, belonging to the Cheeks the Ductus parotidis, the Obliquus internus transversalis the Rectus with a particular account of the Sartorius, which running into the tendinous expansion of the Obliquus Externus, and the muscular fibres of the internus, under the transversalis and lastly to join the emulgent vessels. a portion of any of the contents by the side

of the vas deferens into the scrotum, forms the hernia scrotalis —

The Dr. observed that the seminal vessels in its extension, ends not as well over the rectus, as under it to be inserted into the linea alba. —

Jan.y 14th. I read us the contents of the Abdomen & Pelvis a second time in situ naturali, repeating many observations necessary to be remembered before —

The alimentary canal was the subject of this evening, beginning the description at the Pharynx tracing it the whole length down to the anus, with a compleat anatomical lecture of the various parts —

This evening was taken up in understanding some of the chirlopoetic viscera.

viz. The liver, and pancreas, spleen, and demonstrating their several vessels, with some useful observations of their peculiar structure, situation, uses &c. &c. —

17th No lecture. —

19th This evening was employed with the Descriptions of the Kidneys, glandulæ renales, and bladder: concluding with a number of useful Observations —

20th No lecture.

21st This evening gave us a Physiological account of the Encephalon, making some observations of the uses, structure &c of each particular part, finishing with many hints respecting Nutrition &c. &c —

6 January 22nd

No lecture this morning

23rd

Microscopical Account of the Minute Anatomy of the Human Body, and generally of Animal Life, and Origination; with an Accurate Description —

24th No lecture —

26th Lecture on Mineralogy

27th Lecture on do

28th No Lecture —

29th — do —

30th Lecture on Medical Jurisp.

31st Without Lecture

February 2nd Lecture on Medical Jurisp.
Weather prevented attendance.

February 3d —

Lectured on the different ligaments
Dislocations Subluxations and the me-
thod of reduction —

4th

This evening was spent in examining the organs
of digestion —

5th Lecture on Midwifery

6th

This evening was spent in examining the organs
of digestion —

7th Without Lecture

8th Sunday

9th Monday

Lectured at 4 o'clock at the Hospital and
the afternoon was taken up with Improving

The rest of this week with-
out Lecture —

Feby 16th. Monday

Began the operations of surgery, interesting myself with some general observations on the nature of fevers, and concluded with the operation of the trepan —

17th. Lectures Pathological, Medicinal, Anatomical, and the Practical lecture —

18th. Vitiated Lachrymation, Coughing, Inactive Polypus from the nose & Obstruction of the Viscera —

19th. Phymosis, Paraphimosis, Hernias Hydrocele, Cirsoceli & Paracentesis — Dr Physick related the cases of great & opinionated Surgeons relieved by the application of Cobweb on the heat, and tension —

Feby 20th. Stone & Fistula in Ano. The lateral & recto vesical in the first, and in the latter [illegible]

Citations recommended —

1st Amputation of Aneurism — taking up arteries with the precaution recommended. 2d Hunter's or Operations on Aneurisms, contained in the Index medical & surgical recommended for perusal —

All Aneurisms he divided into true & false — the latter subdivided into diffused & circumscribed. Both require either surgeon or the Physician —

Nothing particular in these lectures prevents the necessity of further annotations —

Extract of a letter from Mr. Jefferson to Mr. Madison, dated Monticello, Feb. 17, 1825.

Yesterday my friend Gallatin communicated to me your letter of the 10th, which was received the day before, and announced your resignation of the Secretaryship of State.

I received at the same time with it the communication of your intention to resign the Presidency of the University, which I had not before heard of, but which I have long foreseen would be your lot, from your zeal for its prosperity, and your fitness for the station. It is not the honor, but the labor and care of the place, which I know will be your motive in particular, which leads you to accept the duties of the station. I feel, with much more than one note, the difficulties you have to encounter, from its wishes, from its hopes, and from the jealousies of the Dissenters.

In the lower part of the Basin it is not the
reverse — the side here is in proportion as 3, 2,
and 1. at the Junction and occupies the deep-
est the Middle part, and at the front or ex-
terior the narrowest. The bend of the
Pile I have mentioned, we are to refer to the
principle, and the greatest force on each bear
on the front exhibiting in the Basin
its frontier and exposition are to the inter-
n Sea Face it seems the weakest part
of the Basin — As the head descends down
stream the pains natural to the
strength, part of the Pelasgic pile to the
widest part of the pelasgic which is just
the reverse of what it was at the ori-
-gin part. A well formed pelasgic is a out
-ward inclination from side to side and in from
Ends to Junction. And the widest
part of the Pelasgic upon, the lower part the

unbecoming and the commission of the other Pallet — From the narrowness from the uterus in deliveries, forms of glass and vessels in vacations. In the case of delivery the uterus with the discharges — in sections the fungus must be directed towards the vacuum of the uterus and the other contracted sections —

Art 24 Opinions of Unscientific women with respect to menses often require a critical physician to give their judgment on the state of the uterus. The manner important in decide conception, Proximity of Patients not more usual to the act of menses, is not a position for that purpose it may affect the bodies bent, or and separate the uterus. When the fungus must be introduced from the-

and flowing to incline it towards the navel as the distinctive feature that was. After conceiving the same sensation in a great degree certain. For the first three or four months the sensation is uncertain. In this we must adopt common opinions. The menses usually cease to flow — This sometimes they continue to flow during the whole time of pregnancy. Upon the supposition of these they are disturbed with nausea in the morning, & the breasts swell — After a painful sensation in a few months the uterus appears to engage and the last just above the pubis is swell, ~~***~~ some time after it extends to the navel & about the latter part of gestation the swelling extends to the ensiform cartilage — This appears generally subject but in emaciated habits

appearances are very different. The relaxed fibre in some cases allows the uterus to sink and can be felt over the pubis after the fetus never reaches the ~~the~~ pavel — in proportion as pregnancy advances the neck of the uterus become softer and the orifice softer and in the month the neck is imperceptible — but by moving the finger carefully round an orifice may be felt. In Women that have had children the uterus becomes softer and more flabby and easier of dilatation — Many points of the abdomen are considered as pathognomonic in the too old women, for labor pains — Real labor pains should never be mistaken for the false motions which come on — In fact there where eminent danger is at hand the

must be believed as much as possible — After the 8th month the gravid Uterus begins on the ~~Uterus~~ bladder causes a frequent inclination to evacuate its contents. At the approach of Delivery a natural Constriction occurs, which the labor will be easy or not. In answering this an Physician should never be precipitate. Should the faults be moist and soft, and the waters copious with a good fermentation, then there is every prospect of an easy labor & vice versa — Before the approach of real labor pains the Uterus descends into the Pelvis in some degree, and the mouth of it becomes relaxed — When false pains prevail with ~~the~~ natural ones a small anodyne will remove them —

Jany 30th Natural Labors

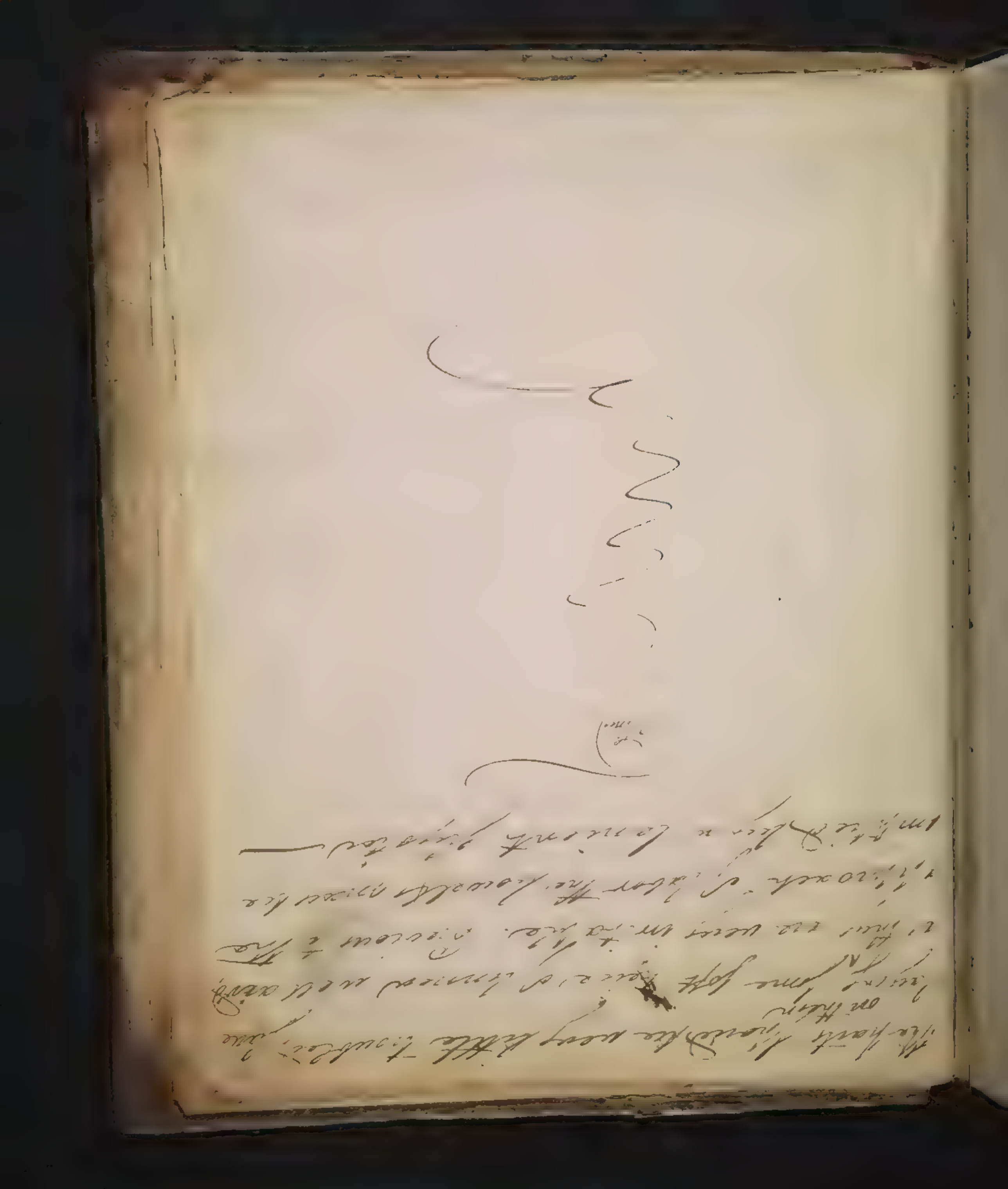
The approaches of labor are frequent, but

[illegible] mucous discharge or mucus from the vagina which begins to lubricate the parts and begins then the dilatation [illegible] [illegible] pains which are scarcely distinguishable. The three pains the 1st [illegible] contracts of the [illegible] become by degrees, dilating. The membranes protrude with the waters. When the bag of the membranes is burst the ~~fœtus~~ head may be easily felt. When the finger is introduced it must be directed towards the sacrum. The nails must be pared close, & the hands anointed with soft pomatum. The best position for the woman is on her side. Care must be taken to prevent her head being injured that she may lye comfortably after delivery without moving. The most proper time for examining the state of the uterus is during a pain. Should the labor be lingering an enemata may be

given to promote exit after which the pains will come on with great force. After the Fetus descends thro the pelvis from the direction of the vessels, it's head will be forcibly pressed against the pera. rectum. In this case the Perineum must be supported by the fingers of the hand in such a manner as to direct the head of the Fœtus to the Posterior aspect.

Upon the two instances no force must be used to extract the shoulders as succeeding pains will more effectually do the business. Should the membranes have rupturated prior to the fœtus descending they may be ~~lacerated~~ separated by a few cautious introduces between the fingers and perineum. After delivery the child some little time should elapse before the umbilical ~~chord~~ cord is tied or divided. In case the Child should not breathe it must be

initiate the secretions below, & circulate into the lungs. The piece of tying the umbilical cord is three or four inches from the navel. Care must be taken in tying, as the placenta is apt to pass into the second generation after birth. The generations after birth should be left to nature, & the assistance in bringing it away, the hand must be introduced after the birth, & the placenta gently detached from the uterus. Very little assistance is required in a natural labor. By stimulating drinks must be avoided and full time be given for the important event. The assistance is often long delayed, & labors often in these circumstances continue in some to last a week. After delivery



well written ~~pa~~ of
Mss Notes on Dr Benj Rushs
lectures taken in 1783 by
D. Gilder. Some notes on
Dr Shippen's lectures
also other notes
4to size
Perfectly legible & in very nice
condition except slight wear of cover
Written only on inside the leaf
~~Dr Rush~~ some notes on the other

RUSH
—
LECTURE
NOTES